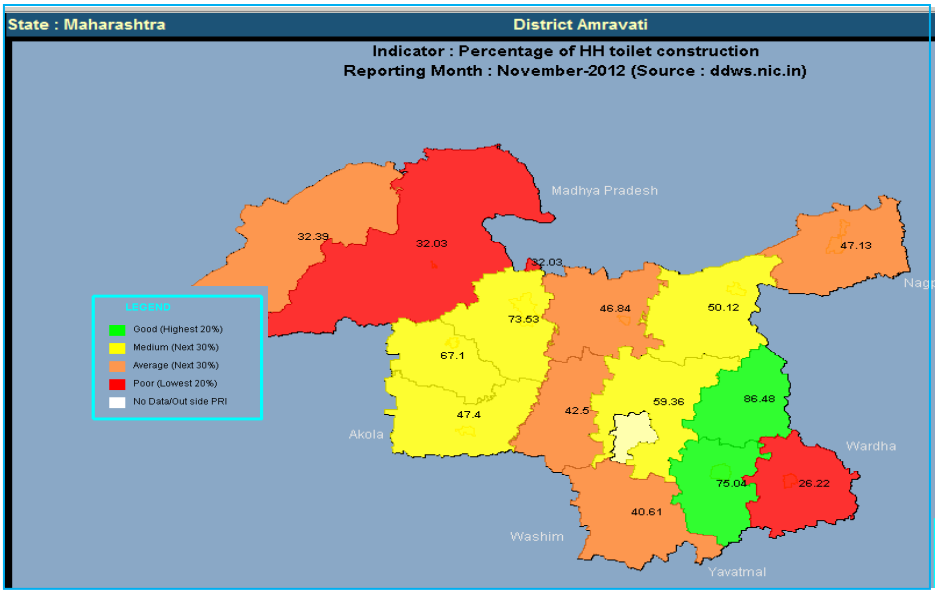
AN EVIDENCE BASED MONITORING AND DECISION SUPPORT SYSTEM FOR EFFECTIVE INTERVENTIONS IN WATER, SANITATION AND HYGIENE USING THE GEOGRAPHIC INFORMATION SYSTEM

USER MANUAL



August 2013

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ListofAbbreviationsUsed

GIS	Geographic Information System
GP	Gram Panchayat
ICT	Information &Communication Technology
MIS	Management Information System
PRI	Panchayat Raj Institute
RWSS	Rural Water Supply & Sanitation
UNICEF	United Nations Children's Fund
WASH	Water, Sanitation and Hygiene
WSSO	Water Supply and Sanitation Support Organization

Understanding certain statistical terms used in the WASH GIS

Frequency distribution: Frequency in this case indicates the number of samples and frequency distribution refers to how the values related to any indicator of each sample are arranged. For example, if there are 100 GPs (sample size is 100) in a block and percentage of households having toilets (indicator) in each GP is considered then there will be 100 possible values (each for one GP) and how those values are arranged is the frequency distribution. In this case the value may be as low as zero and may go up to 100. So, there will be 100 values and more than one GP may have the same value (for example there may be five GPs with 100% coverage). If one considers achievement against target the value may exceed 100 since achievement may be more than target (if the GP was to construct 1000 toilets and construct 1500 toilets, the value of achievement will be 150). If all these values are arranged in ascending or descending order there will be a minimum value (can be zero if achievement is nil) and a maximum (in the first case 100 and in the second case 150). The mean value is the simple average of all the values added together divided by total number of samples (here 100). The median is the value which divides all the samples in to exact two portions, i.e, half of the samples will be above median value and the remaining half will be below median value. Those GPs with value above median will have performance better than GPs with value below median value (it is presumed that the indicator is a positive one such as number of household having toilets, but the same will be reversed for negative indicator such households not having toilets in which higher value indicates lower performance). This helps to divide the GPs in to simply good and bad performing GPs. Since the difference between the best and the worst may be very high it is better to divide the samples in to more segments. In WASH GIS the samples have been divided in to four parts. The best performing 20% (the value in respect of which is better than the remaining 80% samples) are the highest performers. The next 30% samples in terms of values are those which have performed just worse than the first 20%. These two set of samples taken together will be the better half if one considers in terms of the median. All samples below the median is divided in two segments, the worst 20%, which are bottom-most one fifth of the samples and another 30% which is above the worst but with performance below the median value. This is the general pattern but other type of segregation can also be used.

User Manual for the WASH GIS

Introduction: Monitoring of programme is done these days using Information & Communication Technology (ICT) based Management Information System (MIS). However, conventional MIS cannot be used to make spatial analysis and display various performance parameters on a spatial mode to view progress in respect of any particular geographical area like a village or a gram panchayat. Analysis of data disaggregated up to lower level of administrative units, which are associated with implementation of the programme and sharing the same with the local authorities in charge of the administrative unit is essential in making appropriate interventions based on observed failures. Use of Geographic Information System (GIS) enriches the monitoring efficiency substantially by presenting disaggregated analysis on area maps. For example, it can show the performance in respect of any indicator for every block or every gram panchayat within a district map. Such disaggregated analysis shown on map presents theme wise analysis, which may be seen in different layers for easy comparison across different areas, across time as well as to find correlation of performance in terms of one parameter with any other factor having possible impact on the programme performances. If the system is web enabled the local authorities can easily view their performances, which make sharing of programme performances automatic. Thus, GIS based monitoring system is very effective in monitoring programme performances as well as guiding timely interventions.

A GIS has been developed for monitoring and analyzing programme performances in the field of water, sanitation and hygiene (WASH) in Maharashtra and making the same available in the web, which may be accessed at www.wash.maharashtra.gov.in. The system known as WASH GIS captures, analyses and makes display on the web map all important data/performance parameters related to water sources, water supply, water quality, rain fall, ground water availability as well as progress in implementation of the Nirmal Bharat Abhiyan. All data can be analyzed up to block level for all the rural areas of the district and in respect of five districts, namely Amaravati, Chandrapur, Latur, Nandurbar and Yavatmal such analysis may be made up to gram panchayat level. There is provision for entering data based on which such analysis and display is made and the data has to be entered by the field offices. Once the data is entered various analyses may be made using the WASH GIS. Some of the analyses which are common have been provided as pre-defined queries, which make the analysis and display the same in coloured thematic maps readily through the WASH DASHBOARD. The user may make any other query, which may be made using the data entered from the menu of options in the WASH GIS. The user needs some training to enter data and to efficiently use the WASH GIS, which is menu driven and simple to use. This Manual explains how the WASH GIS can be utilized for capturing data, making analysis and preparing maps and charts as well as viewing the same.

The WASH GIS has been developed by the Riddhi Foundation (previously Riddhi Uddalak) being commissioned by the UNICEF.

Water Supply and Sanitation Department

Government of Maharashtra

पाणी पुरवठा व स्वच्छता विभाग
महाराष्ट्र शासन

मराठी | English

मुख्य पृष्ठ | आमच्या विषयी | दृष्टीक्षेप | फोटो गॅलरी | संपर्क

ताजे वृत

पाणी आणि स्वच्छतेच्या संदर्भातील विविध उपक्रम आणि या उपक्रमांच्या परिणामस्वरुप झालेल्या बदलांना वेब साईटवर पाहण्याची सुविधा महाराष्ट्र राज्याने वॉश जीआयएस (पाणी व स्वच्छतेसंदर्भात भोगोलिक स्थानानुसार माहिती पाहण्याची पद्धती) या अभिनव उपक्रमाच्या माध्यमातून उपलब्ध करुन दिली आहे. प्रत्येक कुटुंबापर्यंत सुरक्षित पाणी आणि

अधिकृत वेब साईट

- पंयजल व स्वच्छता मंत्रालय
- पाणी पुरवठा व स्वच्छता विभाग
- जनगणना
- युनिसेफ, भारत
- भूजल सर्वेक्षण आणि विकास यंत्रणा
- पाणी व स्वच्छता सहाय्य संस्था

सहभागी

GSDA Govt. of Maharashtra

unicef

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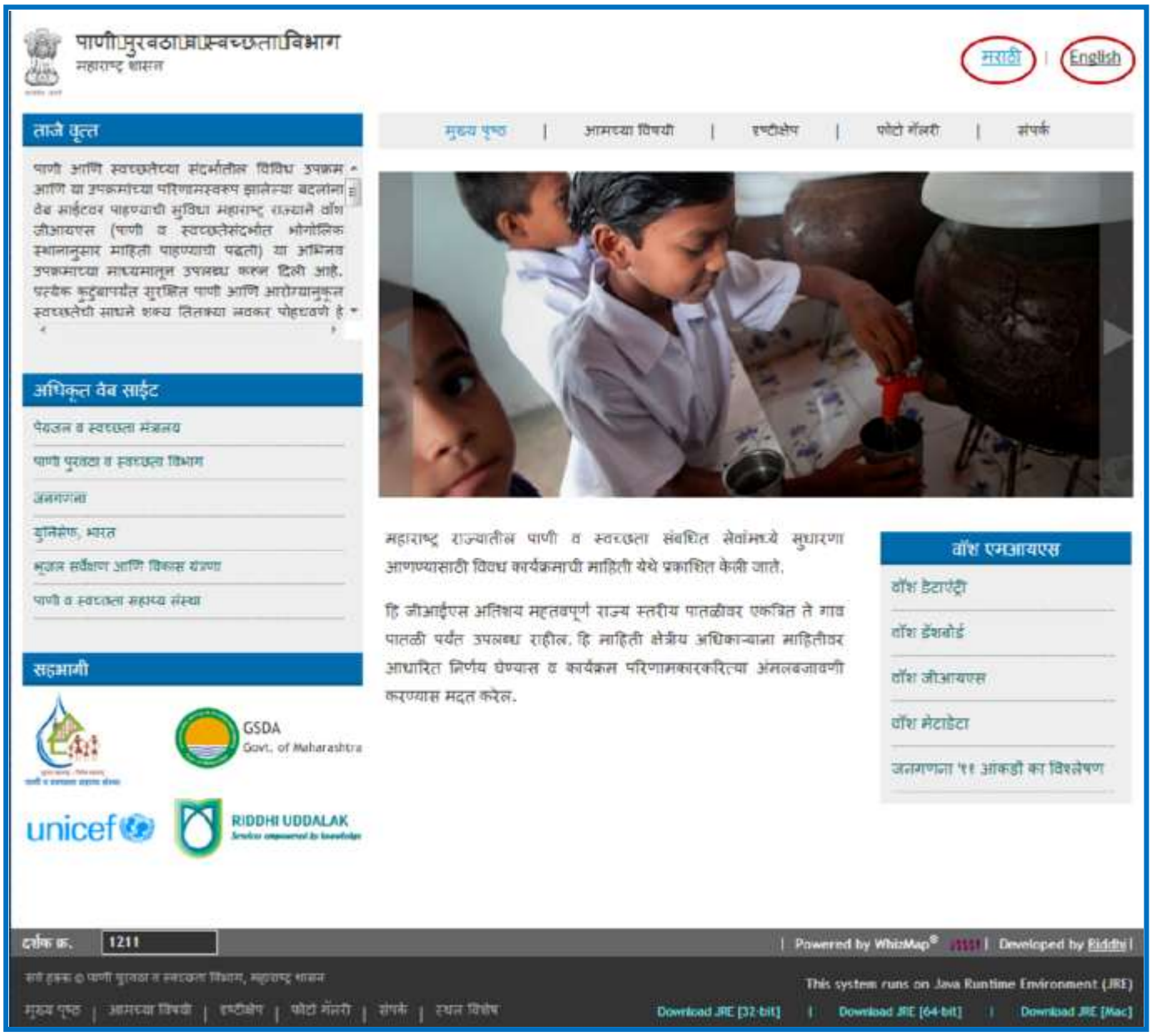
महाराष्ट्र राज्यातील पाणी व स्वच्छता संबधित सेवांमध्ये सुधारणा आणण्यासाठी विवध कार्यक्रमाची माहिती येथे प्रकाशित केली जाते.

हि जीआईएस अतिशय महतवपूर्ण राज्य स्तरीय पातळीवर एकत्रित ते गाव पातळी पर्यंत उपलब्ध राहील. हि माहिती क्षेत्रीय अधिकाऱ्याना माहितीवर आधारित निर्णय घेण्यास व कार्यक्रम परिणामकारकरित्या अंमलबजावणी करण्यास मदत करेल.

वॉश एमआयएस

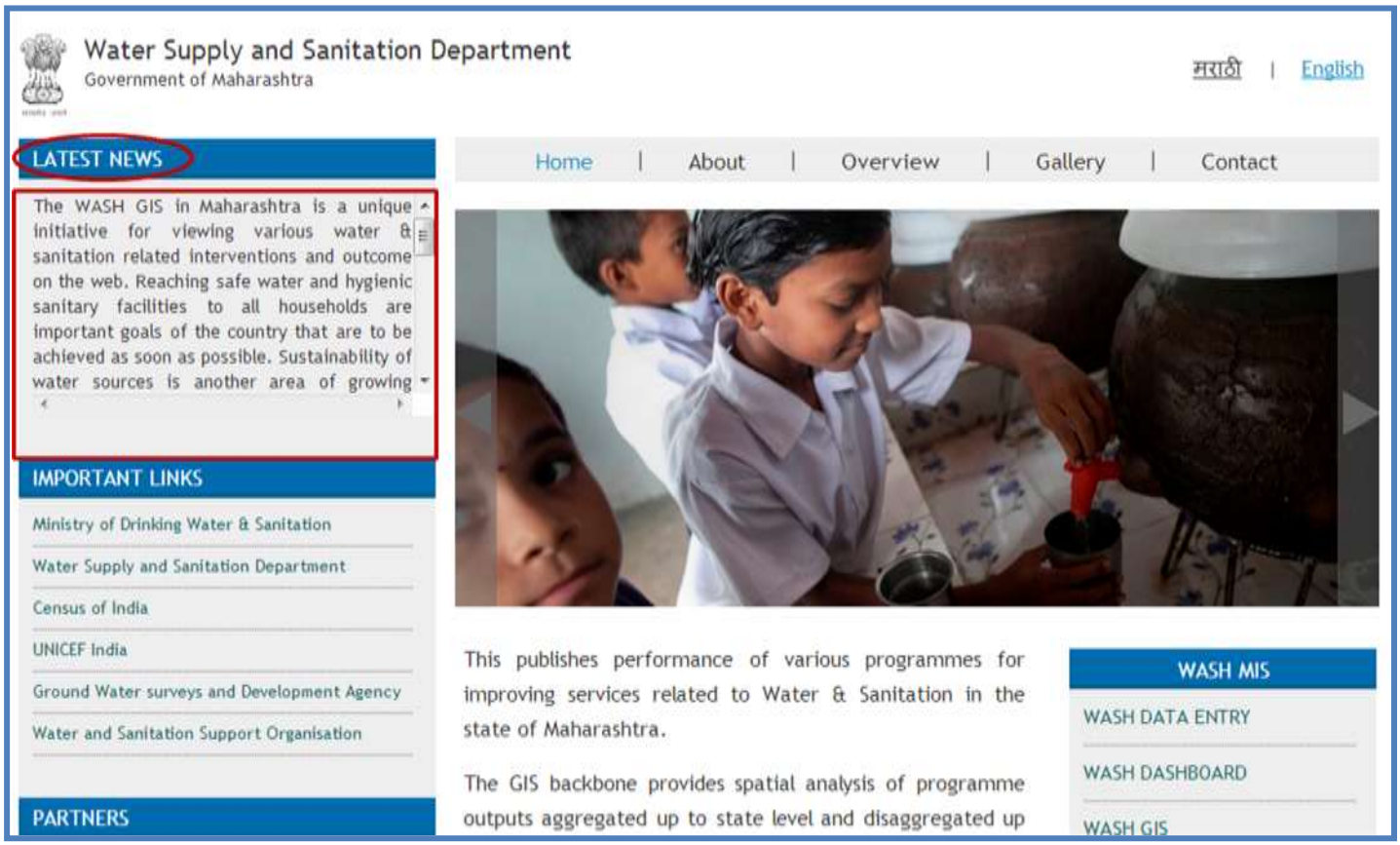
- वॉश डेटाएंट्री
- वॉश डॅशबोर्ड
- वॉश जीआयएस
- वॉश मेटाडेटा
- जनगणना '११ आंकड़ों का विश्लेषण



You can choose your default language as either “Marathi” or “English”. Click on the encircled language as above to set Marathi or English as your default language.

LATEST NEWS ::

Latest News on Water Supply and Sanitation Department can be viewed under this section as shown below.

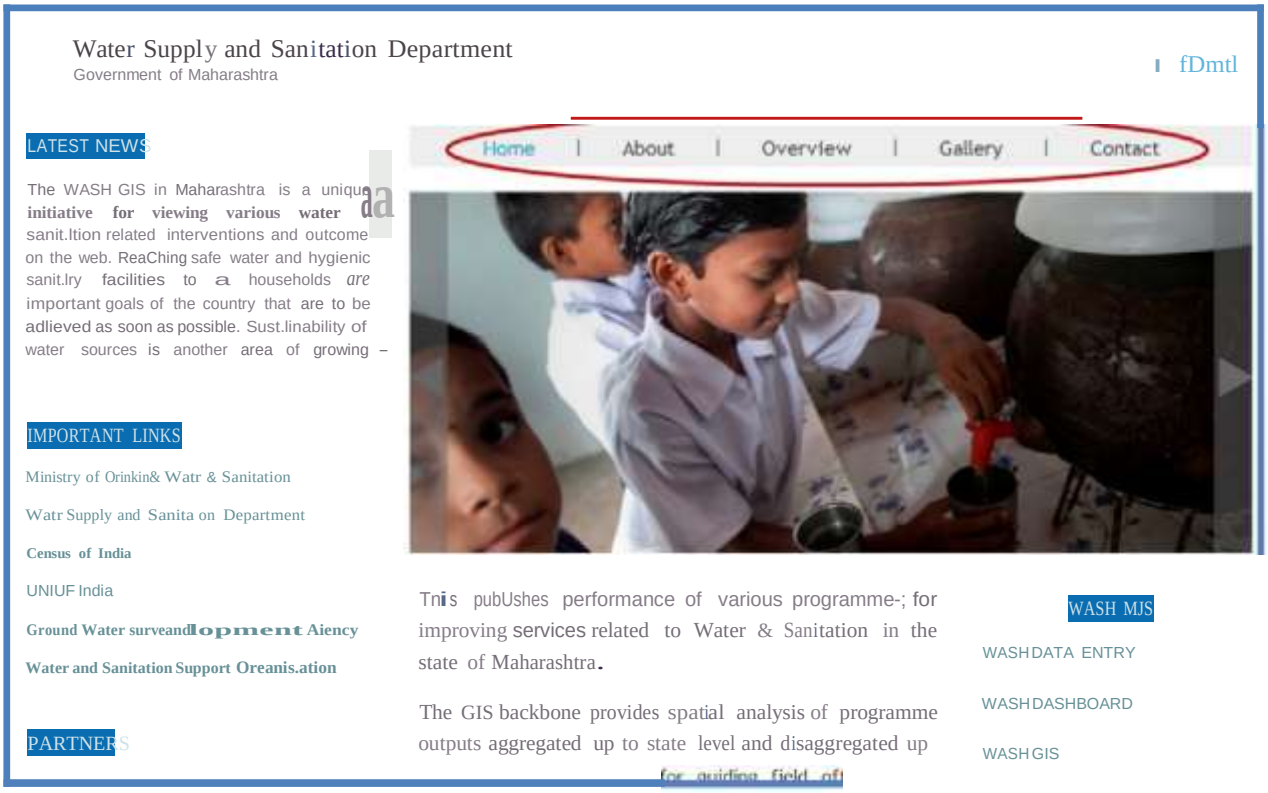

Water Supply and Sanitation Department
Government of Maharashtra
मराठी | English
LATEST NEWS
The WASH GIS in Maharashtra is a unique initiative for viewing various water & sanitation related interventions and outcome on the web. Reaching safe water and hygienic sanitary facilities to all households are important goals of the country that are to be achieved as soon as possible. Sustainability of water sources is another area of growing
IMPORTANT LINKS
Ministry of Drinking Water & Sanitation
Water Supply and Sanitation Department
Census of India
UNICEF India
Ground Water surveys and Development Agency
Water and Sanitation Support Organisation
PARTNERS
Home | About | Overview | Gallery | Contact
This publishes performance of various programmes for improving services related to Water & Sanitation in the state of Maharashtra.
The GIS backbone provides spatial analysis of programme outputs aggregated up to state level and disaggregated up
WASH MIS
WASH DATA ENTRY
WASH DASHBOARD
WASH GIS

IMPORTANT LINKS ::

Click on the following links to visit the respective web sites.

- MinistryofDrinkingWater&Sanitation
- WaterSupplyandSanitationDepartment
- CensusOfIndia
- UnicefIndia
- GroundWatersurveysandDevelopmentAgency
- WaterandSanitationSupportOrganization

As this System contains GIS Module hence this System runs on Java Runtime Environment (JRE). If your machine is of 32 bit version of Windows then click on the ***"Download Sun]RE {32-bit]".*** Otherwise click on the ***"Download Sun]RE*** *{64-* ***bit]".***


Water Supply and Sanitation Department
Government of Maharashtra
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Census of India
UNIUF India
Ground Water surveandlopment Aiency
Water and Sanitation Support Oreanis.ation
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WASH DATA ENTRY
WASH DASHBOARD
WASH GIS

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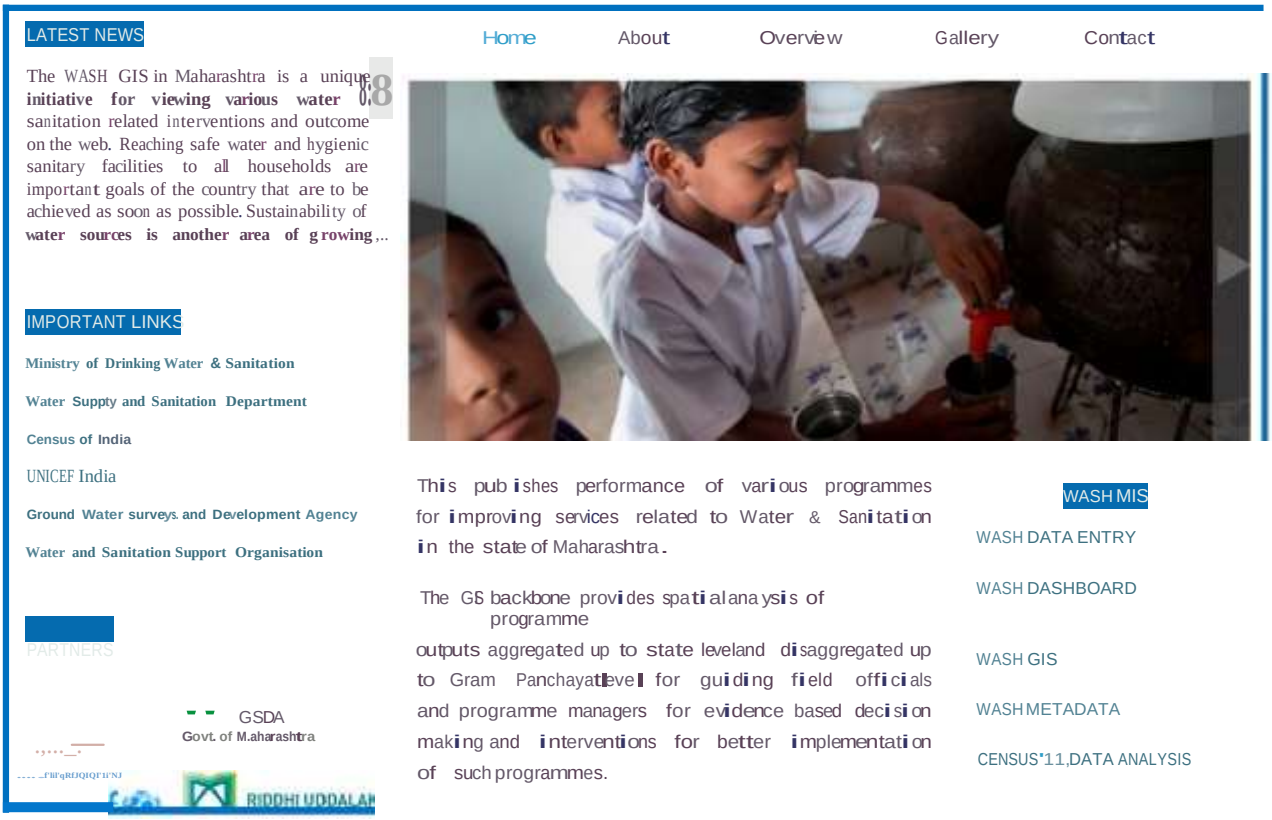
The Home Tab will direct you to the home page of this System. Here you will get to know the main features and Navigation links of the System.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IMPORTANT LINKS
Ministry of Drinking Water & Sanitation
Water Suppty and Sanitation Department
Census of India
UNICEF India
Ground Water surveys and Development Agency
Water and Sanitation Support Organisation
PARTNERS
GSDA
Govt. of M.aharashtra
Home
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Gallery
Contact
This publishes performance of various programmes for improving services related to Water & Sanitation in the state of Maharashtra.
The GIS backbone provides spatial analysis of programme outputs aggregated up to state leveland disaggregated up to Gram Panchayatlevel for guiding field officials and programme managers for evidence based decision making and interventions for better implementation of such programmes.
WASH MIS
WASH DATA ENTRY
WASH DASHBOARD
WASH GIS
WASH METADATA
CENSUS'11,DATA ANALYSIS

ABOUT::

This Link contains a brief description about the System. It also contains a hierarchical model of the Institutional Architecture.

Water Supply and Sanitation Department
Government of Maharashtra

LATEST NEWS

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IMPORTANT liNKS

Ministty of Drinking Water Q. S&nibtion

Water Supply and Sanitation Department

Census of India

UNICEF lndla

Ground Water surveys and Oe\elopment Aeency

Water and Sanltadon Support Or&•nlsadon

PARTNERS

GSDA
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unicef

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Home About Overview Gallery Contact

ImproVing access to safe water and hygienic sanitation practices are important aspect of devebpment to which the government of Maharashtra is we[committed.

There are several programmes, a few of which are of nationalimportance, which are being implemented in this regard in the state. Better implementation of those programmes is essential for which there should be proper monitoring of the programme outputs and other related parameters.

The GIS is an exce[ent toolfor improved monitoring and has an edge over conventionalsystem of monitoring, since it also provides spatial analysis of performances. The system has been specially designed to visuaUze performances of water and sanitat on related programmes aggregated up to state levelas weU disaggregated for lower leveladministrative units up to Gram Panchayats (presently In five selected districts namely, Latur, Yavatmal Nandurbar, Chandrapur and Amaravati). Performances across administrative units are displayed in thematic coloured maps which may be generated through easy queries.

The system is very transparent and easily accessible, which helps better supervision and guidance for improving implementation of an those programmes.

Institutional Architecture:

Minister, Water Supply and Sanitation Department, Government of Maharashtra
Minister of State for Water Supply and Sanitation Department (WSSD)
Principal Secretary, WSSD
Deputy Secretary (Admin)
Deputy Secretary (Urban)
Deputy Secretary (Rural)
Deputy Secretary (Budget)
Officer on Special Duty (Programmes-Rural)
Maharashtra Jeevan Pradhikaran (MJP)
Urban Local Bodies (ULBs)
Jalswarajya Project (World Bank Assisted)
Aaple Pani Project (KfW Assisted)
Water and Sanitation Support Organization (WSSO)
Financial Allocation and Release
Administrative Approval and Release (MJP & GSDA)
Groundwater Surveys and Development Agency (GSDA)
Director
Additional Director
NBA/IEC/NBD
NRDWP

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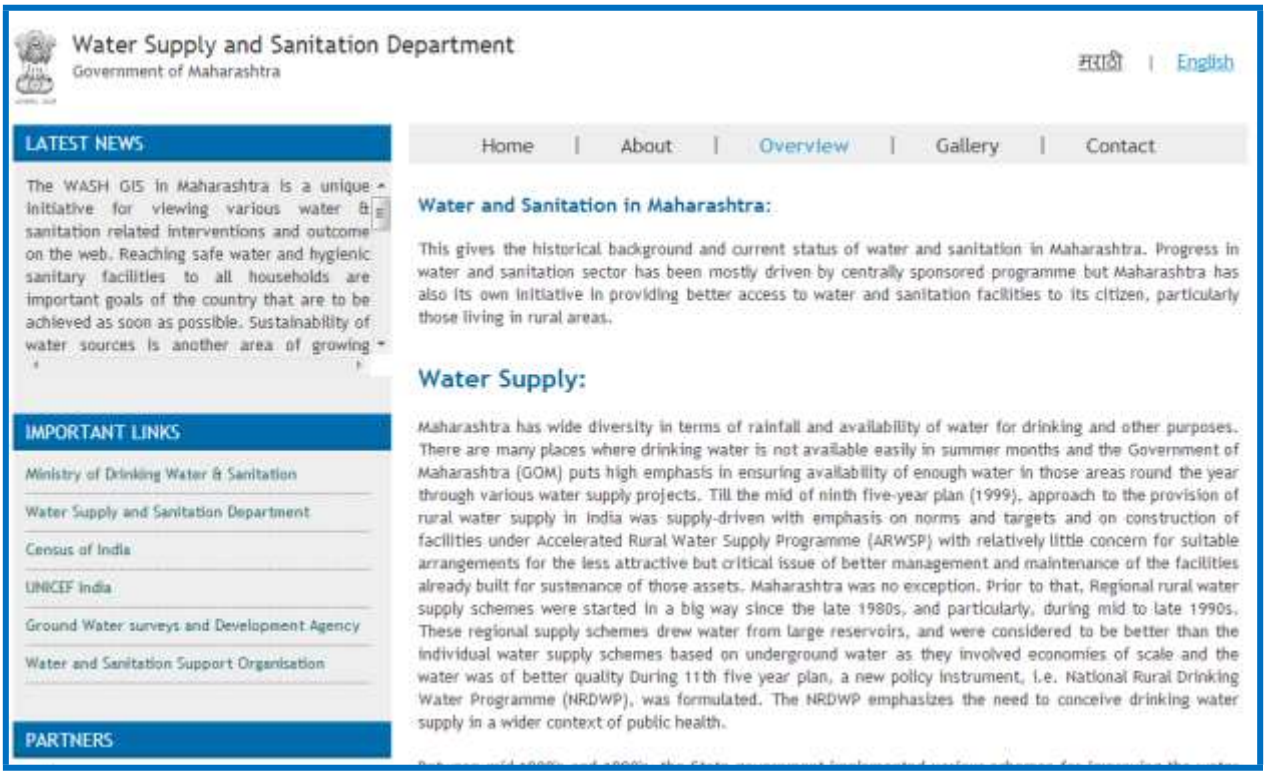
OVERVIEW ::

Under this you will get to know the Overview of Water and Sanitation in Maharashtra. The module is structured in the following way:

- Water Supply
- Sanitation
- Institutional Framework and Administrative Arrangement for Water & Sanitation
    - Legal and Policy framework for RWSS and Sanitation.
    - Organizations for RWSS and Sanitation


Water Supply and Sanitation Department
Government of Maharashtra
मराठी | English
LATEST NEWS
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IMPORTANT LINKS
Ministry of Drinking Water & Sanitation
Water Supply and Sanitation Department
Census of India
UNICEF India
Ground Water surveys and Development Agency
Water and Sanitation Support Organisation
PARTNERS
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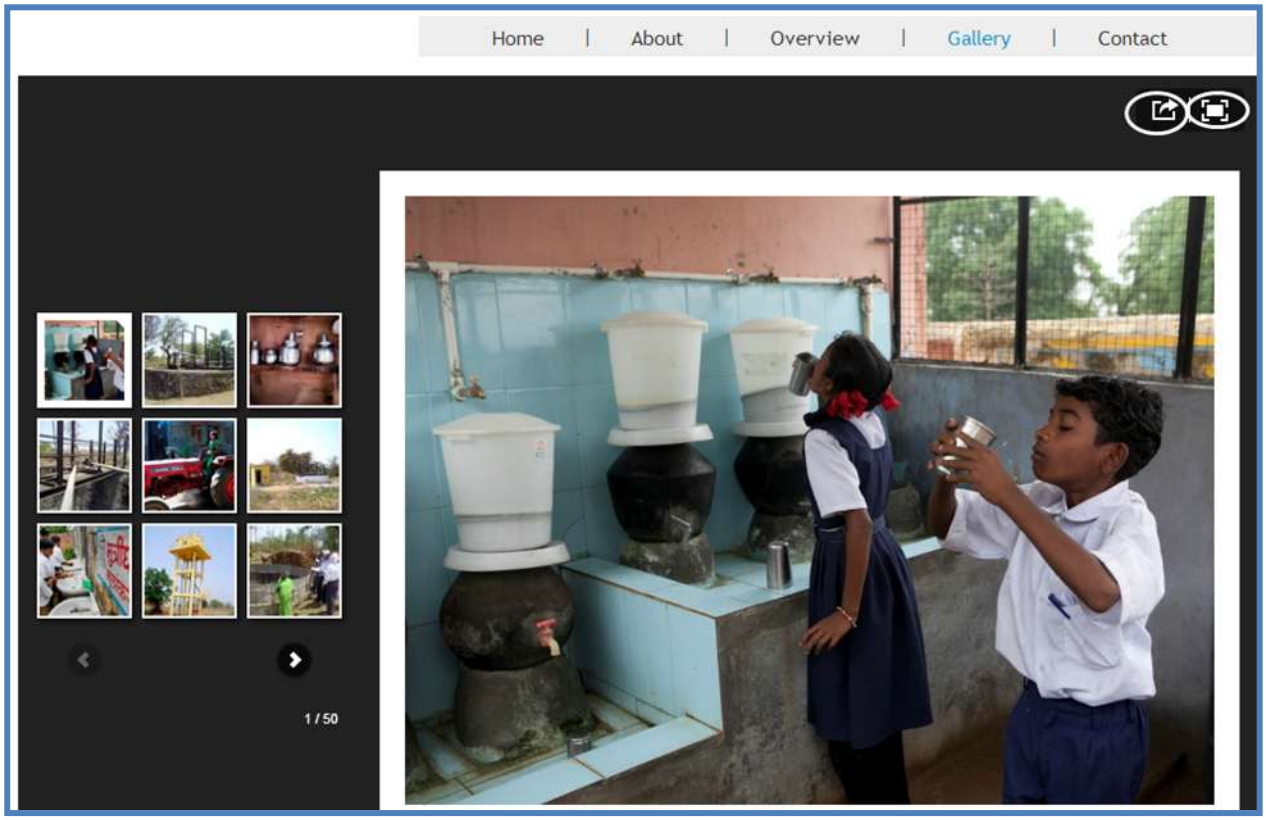
Water and Sanitation in Maharashtra:
This gives the historical background and current status of water and sanitation in Maharashtra. Progress in water and sanitation sector has been mostly driven by centrally sponsored programme but Maharashtra has also its own initiative in providing better access to water and sanitation facilities to its citizen, particularly those living in rural areas.
Water Supply:
Maharashtra has wide diversity in terms of rainfall and availability of water for drinking and other purposes. There are many places where drinking water is not available easily in summer months and the Government of Maharashtra (GOM) puts high emphasis in ensuring availability of enough water in those areas round the year through various water supply projects. Till the mid of ninth five-year plan (1999), approach to the provision of rural water supply in India was supply-driven with emphasis on norms and targets and on construction of facilities under Accelerated Rural Water Supply Programme (ARWSP) with relatively little concern for suitable arrangements for the less attractive but critical issue of better management and maintenance of the facilities already built for sustenance of those assets. Maharashtra was no exception. Prior to that, Regional rural water supply schemes were started in a big way since the late 1980s, and particularly, during mid to late 1990s. These regional supply schemes drew water from large reservoirs, and were considered to be better than the individual water supply schemes based on underground water as they involved economies of scale and the water was of better quality During 11th five year plan, a new policy instrument, i.e. National Rural Drinking Water Programme (NRDWP), was formulated. The NRDWP emphasizes the need to conceive drinking water supply in a wider context of public health.

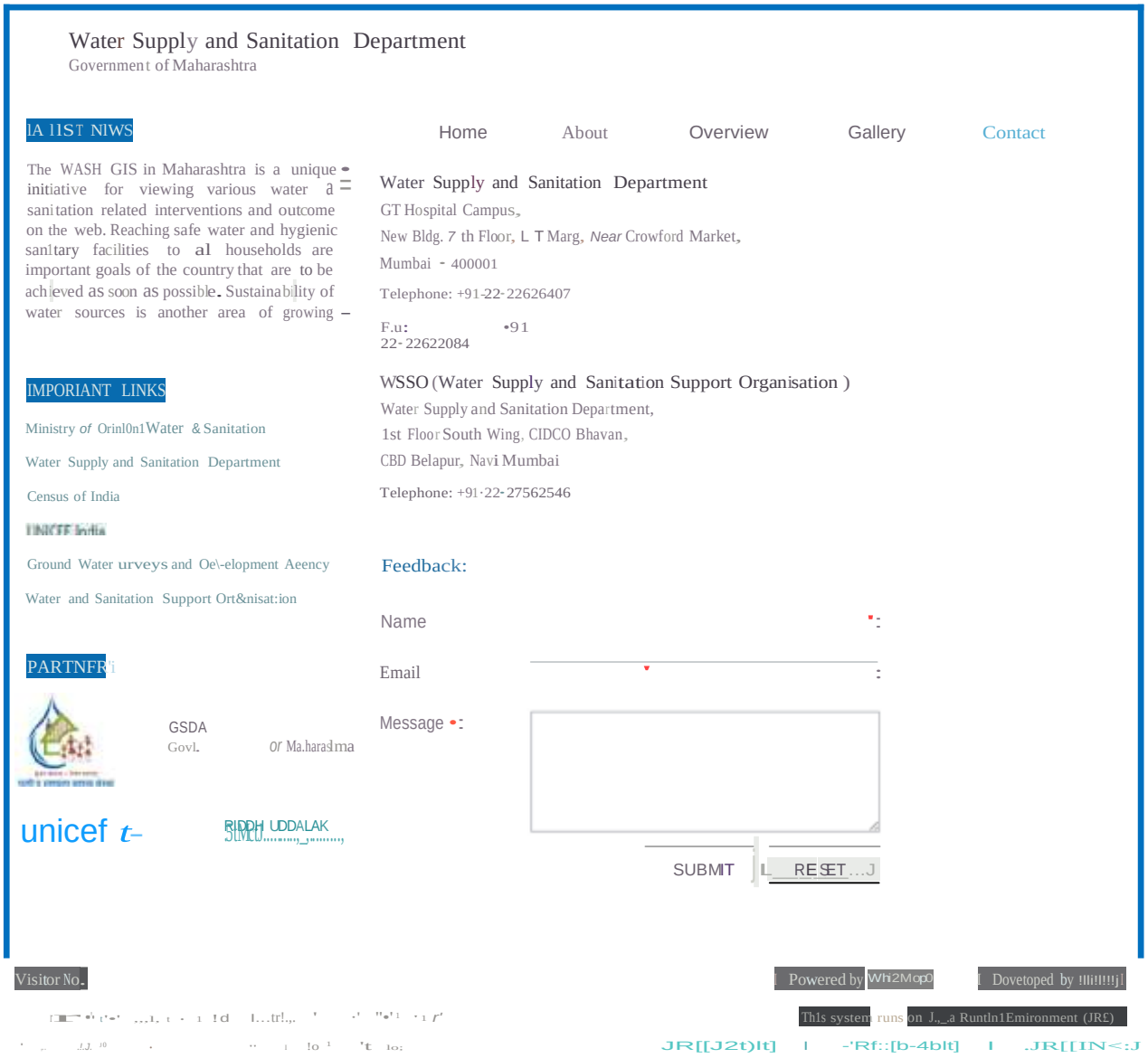
GALLERY ::

In Gallery you get to view various images. If you want to open the selected Image in a new window then click on this link. Otherwise if you want to view the image in full screen then click on the following link



(CONTACT::

Detail contact information of the Water Supply and Sanitation Department and WSSO is present in this link.


Water Supply and Sanitation Department
Government of Maharashtra
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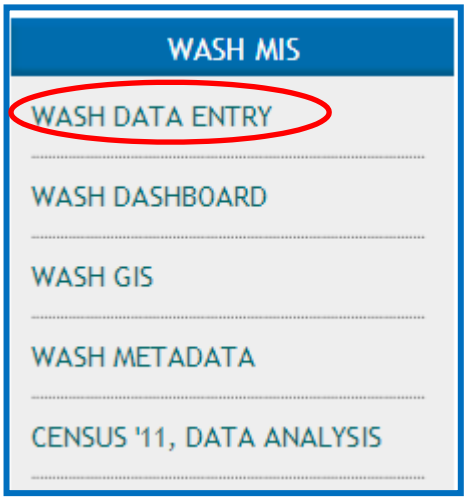
Ministry of Orinl0n1Water & Sanitation
Water Supply and Sanitation Department
Census of India
Ground Water urveys and Oe\-elopment Aeency
Water and Sanitation Support Ort&nisat:ion
PARTNFRi
GSDA
Govl. Or Ma.harasima
unicef
RIDDH UDDALAK
Water Supply and Sanitation Department
GT Hospital Campus,
New Bldg. 7 th Floor, L T Marg, Near Crowford Market,
Mumbai - 400001
Telephone: +91-22-22626407
F.u: •91
22-22622084
WSSO (Water Supply and Sanitation Support Organisation)
Water Supply and Sanitation Department,
1st Floor South Wing, CIDCO Bhavan,
CBD Belapur, Navi Mumbai
Telephone: +91·22-27562546
Feedback:
Name
Email
Message
SUBMIT
RESET
Visitor No.
Powered by
Dovetoped by

Feedback::

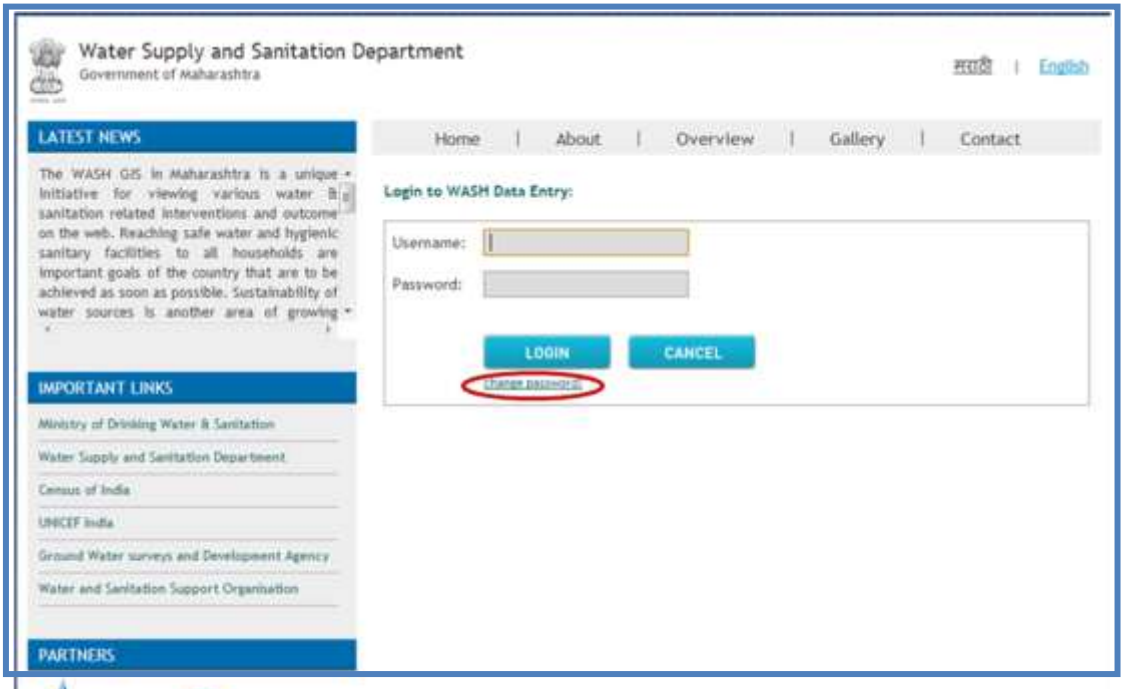
If you want to send any feedback write your name, Email Address and the feedback message you want to send in the space provided and click on the Submit button.

MODULES OF WASH ::

WASH contains the following modules: Wash Data Entry, Wash Dash board, Wash GIS, Wash Metadata, and Census'11 Data Analysis.



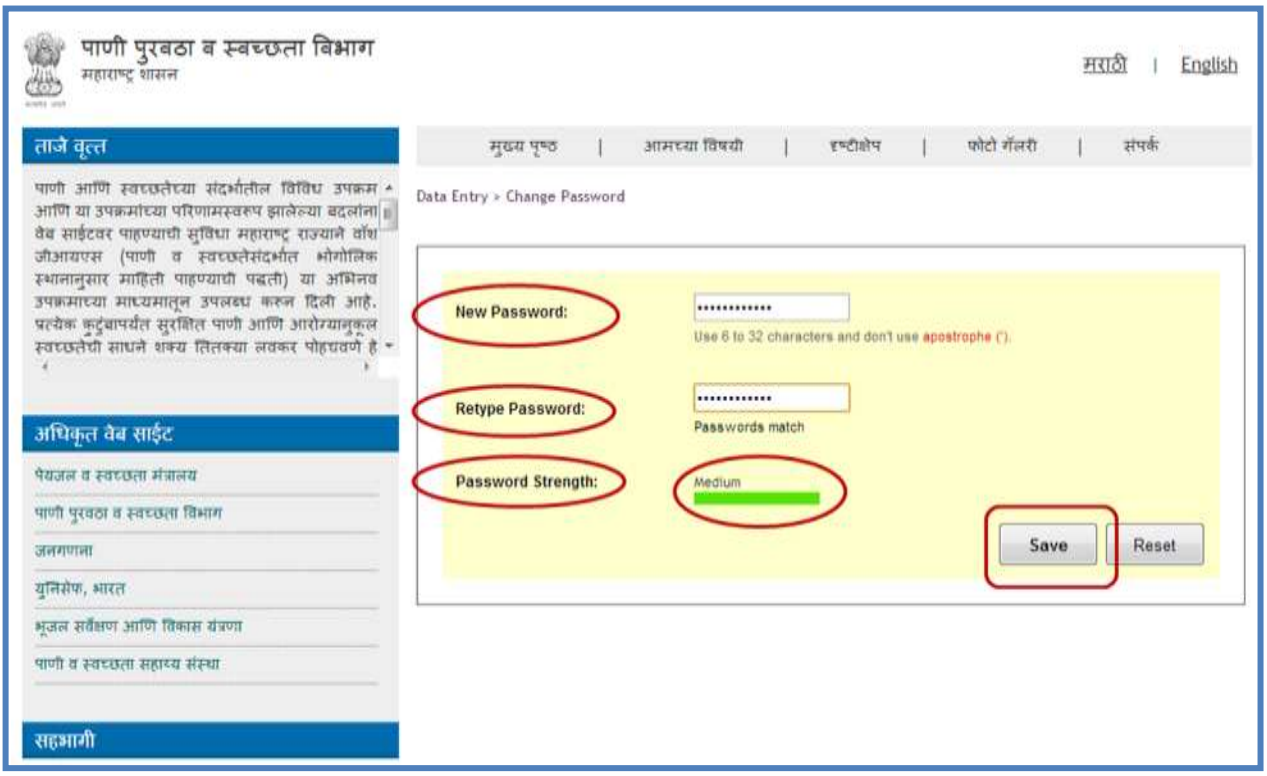
WASH DATA ENTRY:



To Login into the Data Entry System enter your Username and Password and then click on the Login Button as shown. User from Block as well as District level can enter into the system.

There are 1 more link: "Change Password".

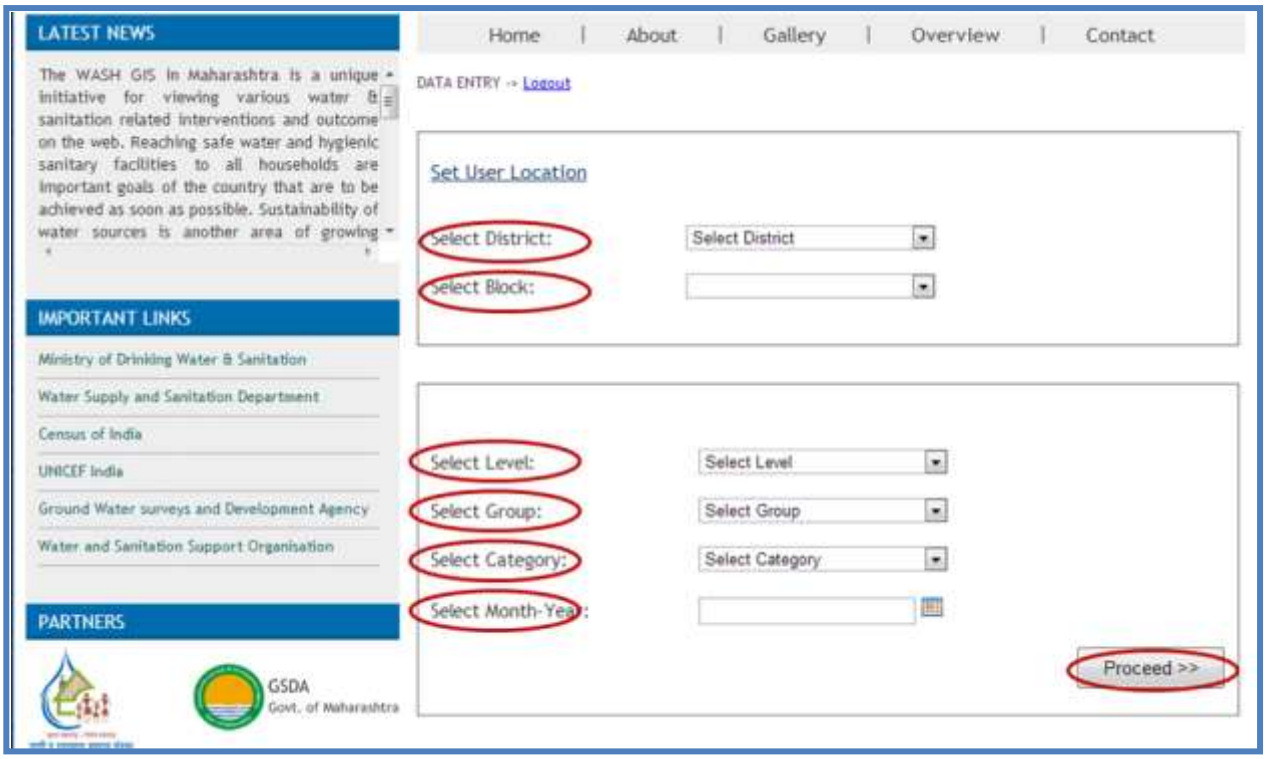
CHANGE PASSWORD ::



New Password: Type your new password. But make sure that the password contains minimum 6 and maximum 32 characters. Do not use apostrophe (‘) in the password.

Retype Password: Again type your password in the text box below. This password should be same with the above password.

Password Strength: Depending upon the password you have entered its strength (very weak, weak, better, medium) is decided.


LATEST NEWS
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Ministry of Drinking Water & Sanitation
Water Supply and Sanitation Department
Census of India
UNICEF India
Ground Water surveys and Development Agency
Water and Sanitation Support Organisation
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GSDA
Govt. of Maharashtra
Home | About | Gallery | Overview | Contact
DATA ENTRY -> Logout
Set User Location
Select District:
Select District
Select Block:
Select Level:
Select Level
Select Group:
Select Group
Select Category:
Select Category
Select Month-Year:
Proceed >>

Select District: Select a District names like Amravati, Chandrapur, Latur, Nandurbar, Yavatmal from the combo box.

Select Block : Select a Block name from the combo box.

Select Level: Select a level (Village or Gram Panchayat) from the combo box.

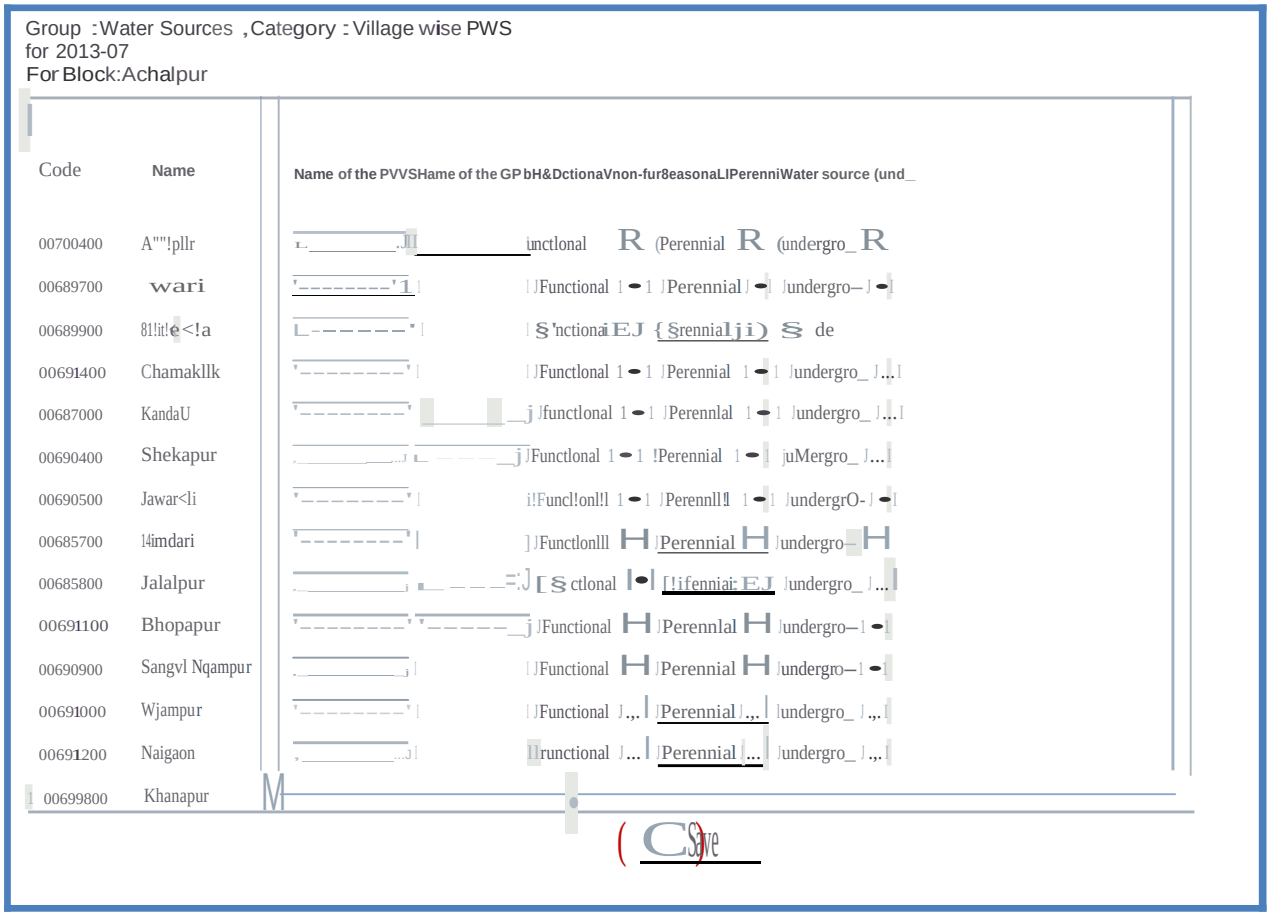
Select Group: Select a Group (Water Sources and Supply, Demographic, GW Status & Rainfall) from the combo box.

Select Category: Select a Category from the combo box.

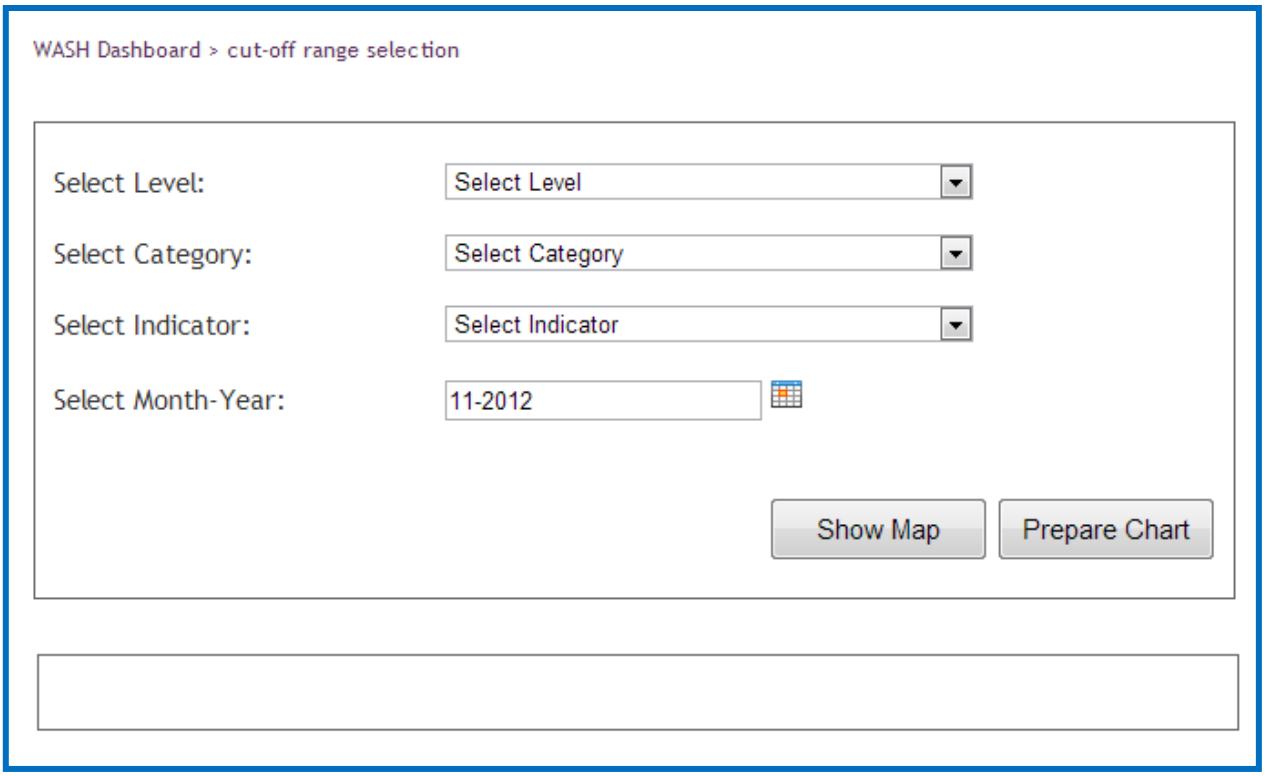
Select Month–Year: Choose month year from the calendar provided.

After selecting all the fields click on the “Proceed” button to start the data entry process.

After filling up the form, Click on the Save button to save the data in the System.

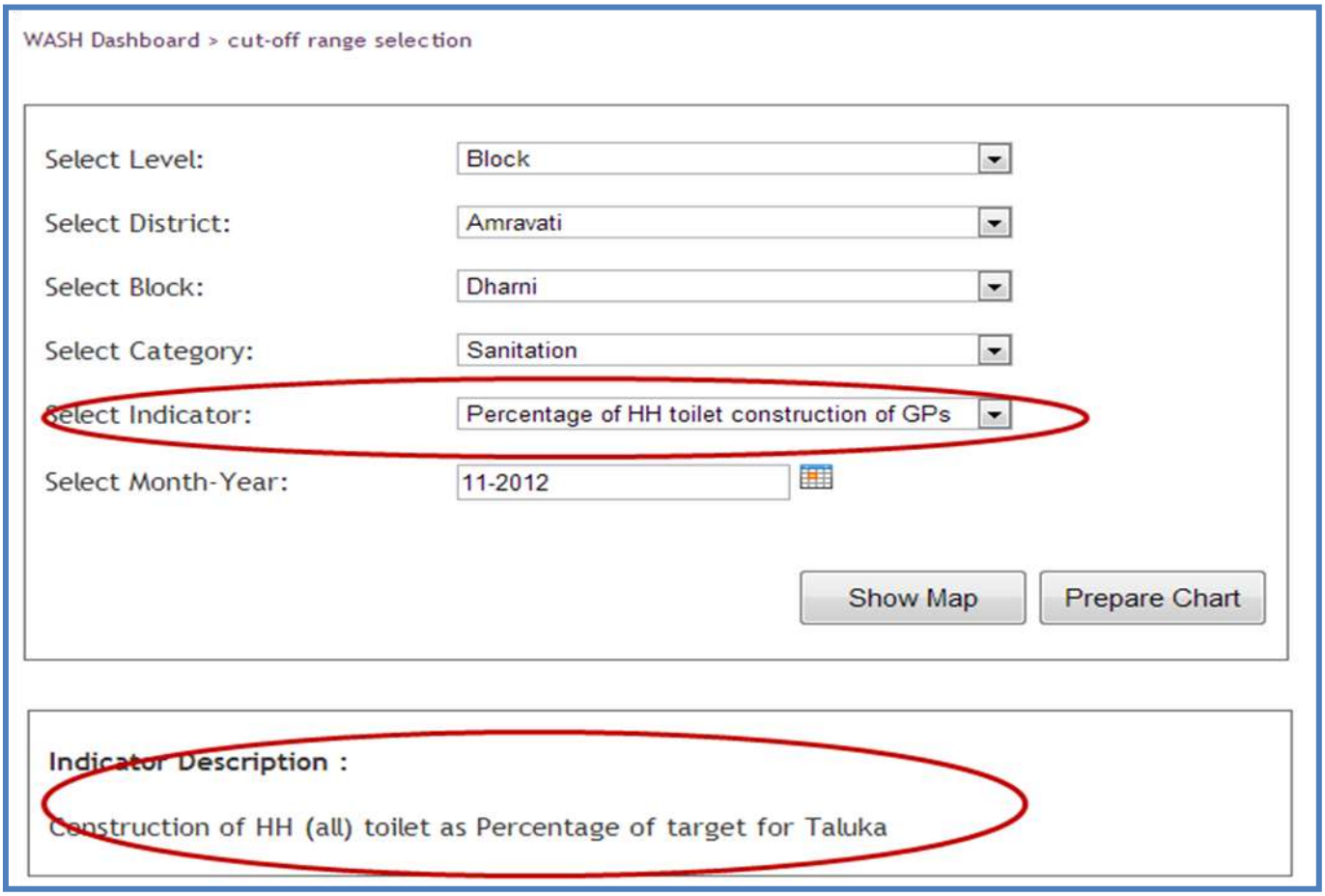


WASH DASHBOARD ::



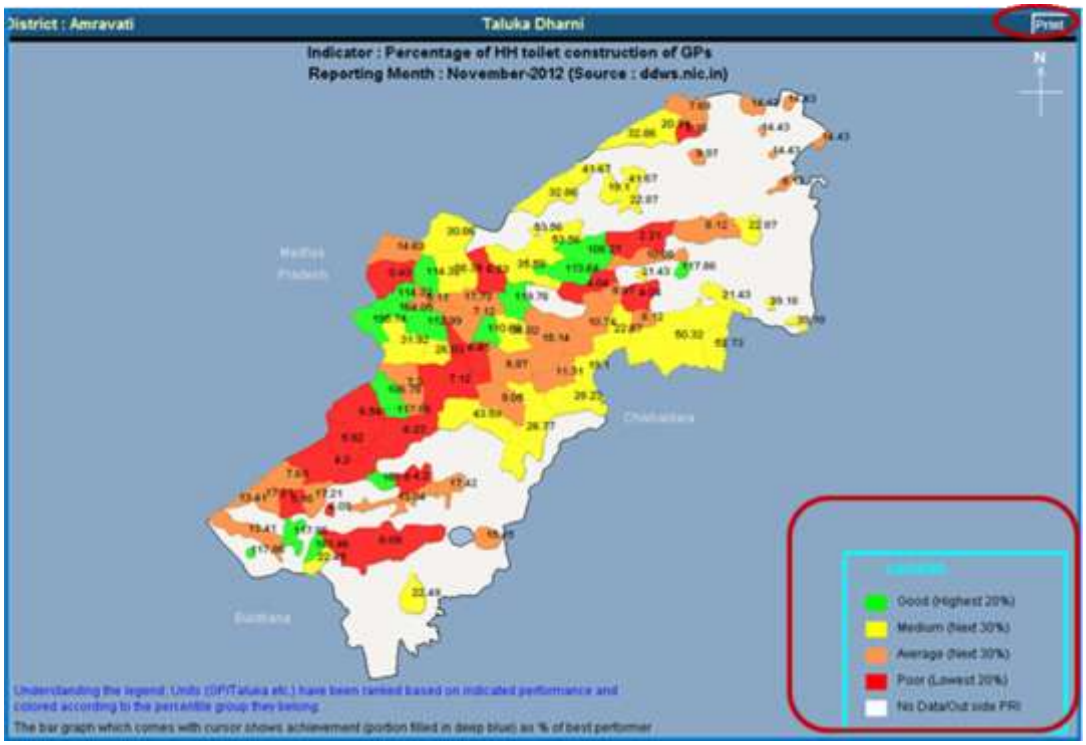
Select a Level (either Block or District), Category (Sanitation / Drinking Water Supply / Cross Cutting Issues / Drinking Water Source / Water Tax) and Indicator from the combo box. Then select the month and year for which you want to see the data.

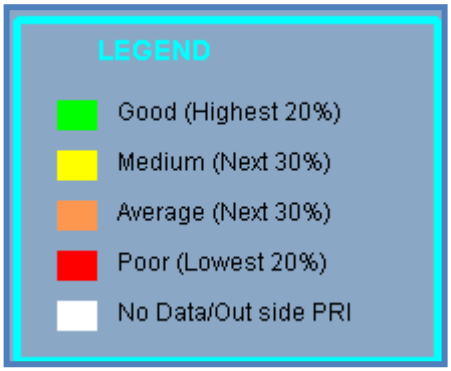
As soon as you will select an Indicator from the list provided, Indicator Description will be generated in the box as shown below.



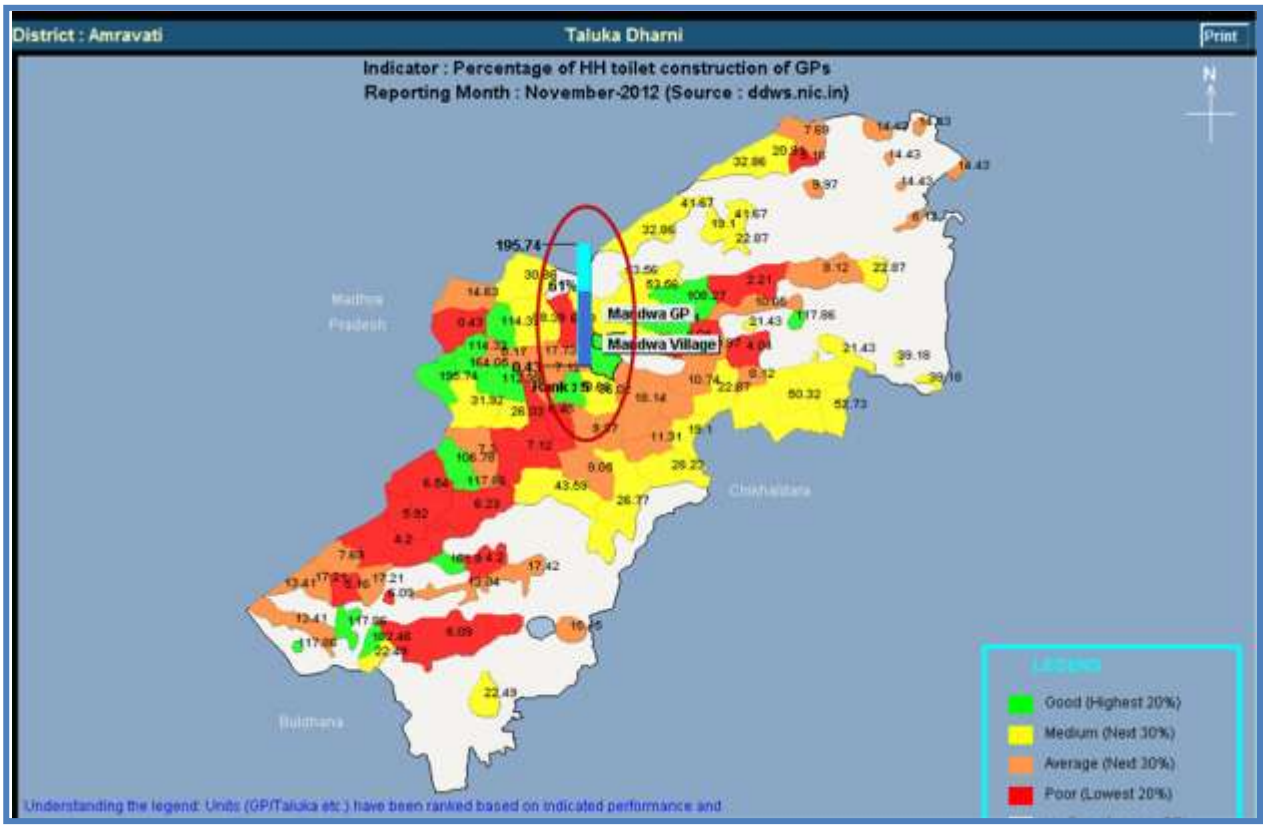
On clicking the "Show Map" button, the following Pre-Defined map will be generated.

The indicators here are pre-Defined. The following map shows us the data against the Group, Category and Indicator we have selected previously. Each GP is showing some data on it. If you want to see the Bar Graph, then move the cursor point on required the Village / GP name and you will be able to see a bar generated which shows the Rank, highest and lowest value and the percentage of data of that GP.



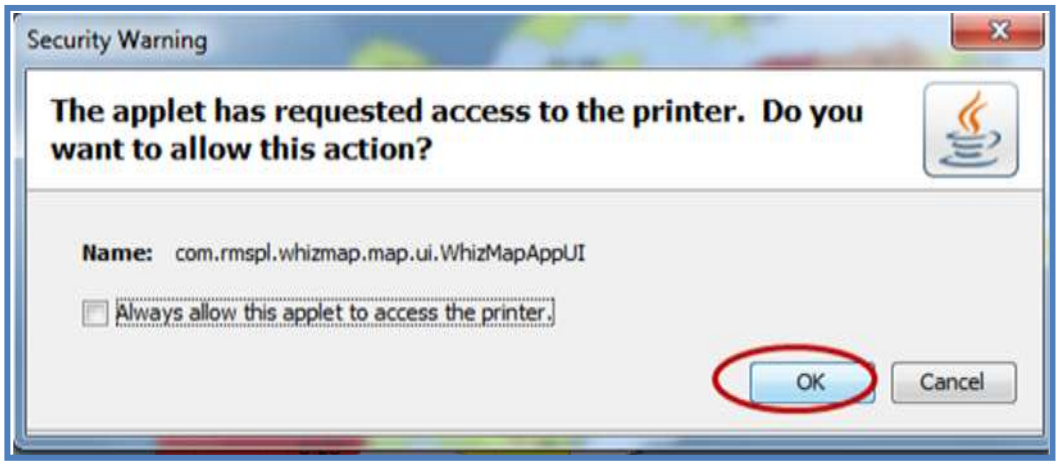


- The GP with highest 20% data is marked as GOOD -> GREEN
- The next 30% is considered as MEDIUM -> YELLOW
- The next 30% of Medium is considered as AVERAGE -> ORANGE
- The last (lowest) 20% is considered as POOR -> RED
- If any GP is colored white then either NO Data is present or the GP is present outside PRI -> WHITE

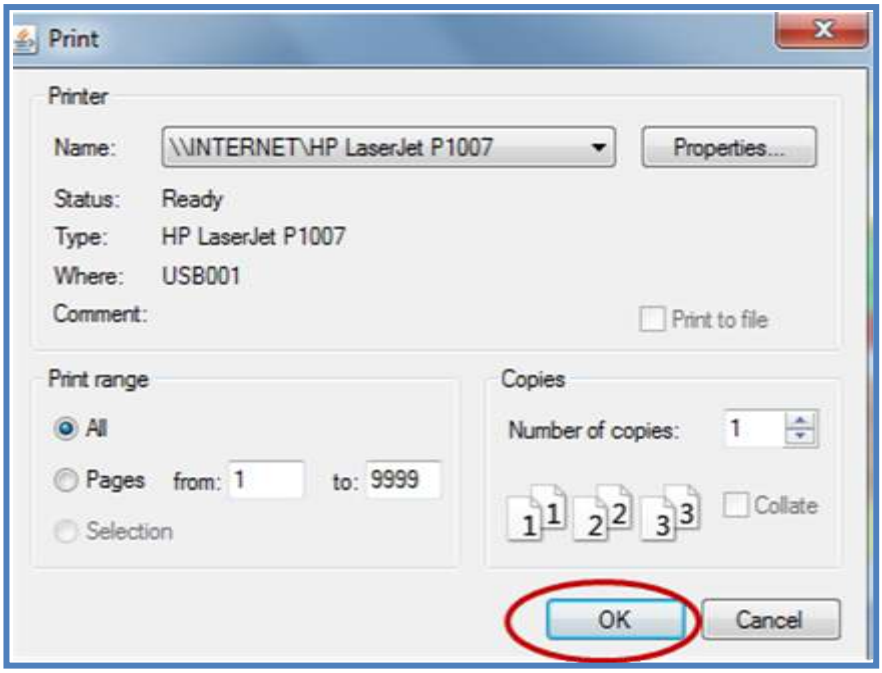


The highlighted Graph in the picture above shows the Rank of the GP : 5. Lowest data is 0.43 whereas highest data is 195.74. The GP with Rank 5 contains 61% of data for the given Indicator falling under the given Category.

You can take a print of the Pre-Defined Map on clicking the “Print” button,


Security Warning
The applet has requested access to the printer. Do you want to allow this action?
Name: com.rmspl.whizmap.map.ui.WhizMapAppUI
Always allow this applet to access the printer.
OK
Cancel

Select the “Ok” button.



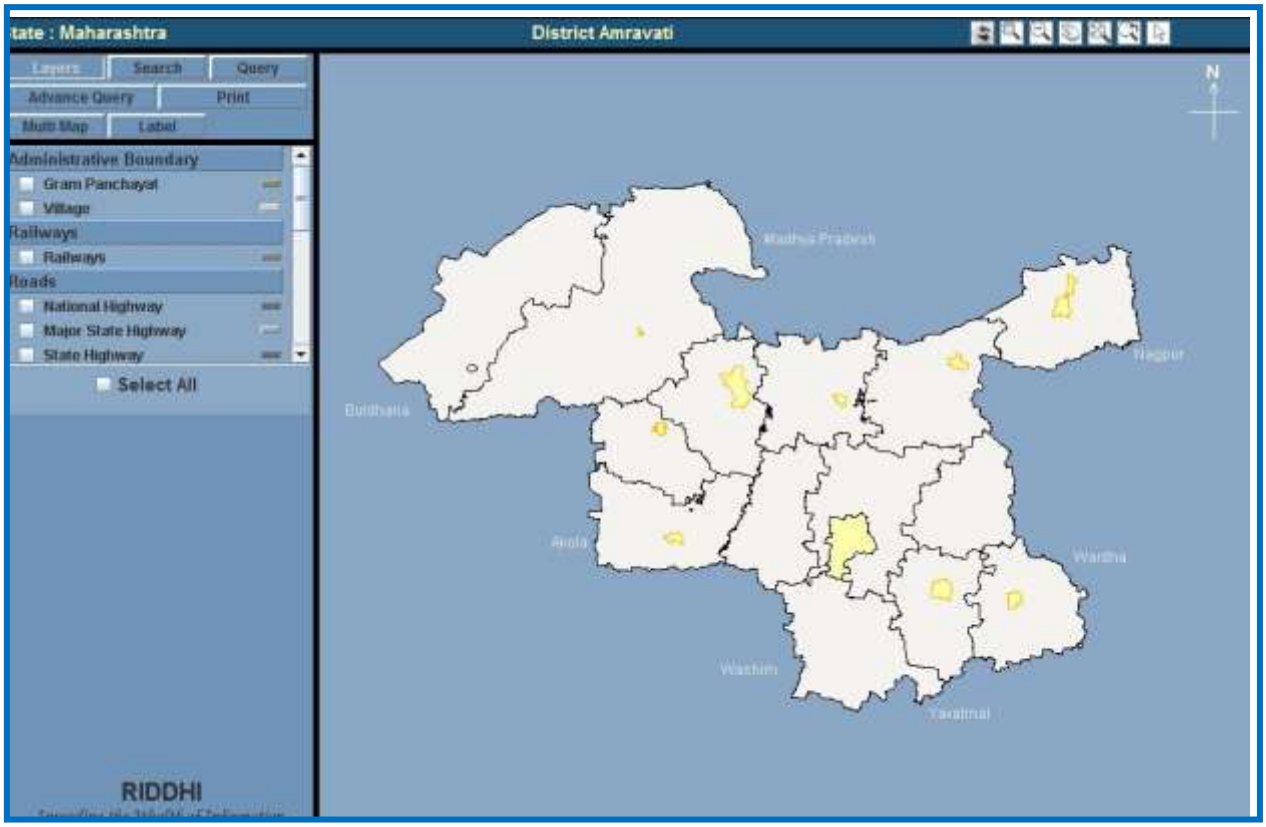
Again click on the “OK” button to print the map.

WASH GIS ::

Geographic Information Systems (GIS) is a set of tools that captures, stores, analyzes, manages and presents data that are linked to various location(s), like GP and Villages etc.

In the simplest terms, GIS is the merging of cartography, statistical analysis, and database technology.

On clicking the GIS module of the system, the respective map and data will be loaded in the system and the map screen will appear as follows:



The system provides certain unique facilities like:

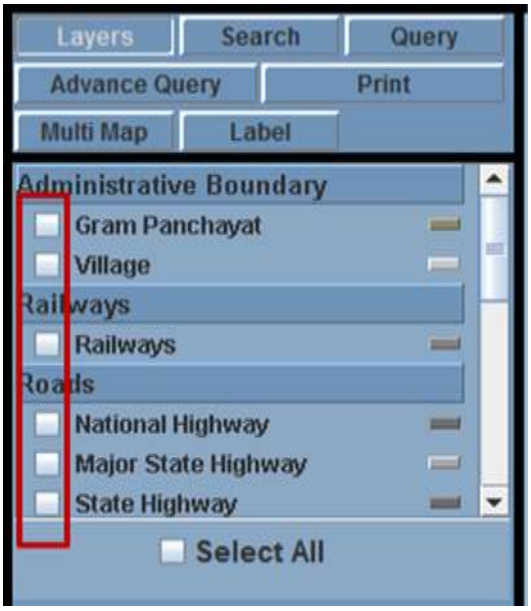
1. Easy Tool Tip Text
2. Fast location search facility
3. Simple Query builder
4. Range Query builder
5. Advance Query builder
6. Multi Map facility
7. Labeling
8. Printing
9. Easy Zooming and Panning facilities.
10. Report Generation and etc.

On the top left hand corner of the window you will find a menu bar containing a list of buttons as shown above:

<u>The use of each button is described next page onwards:</u>

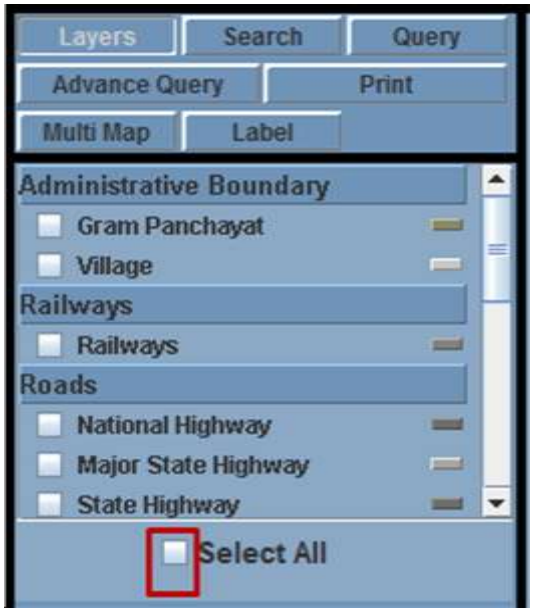
LAYERS::

This section gives you a list of spatial objects you can see in your map. By clicking on the "Layer" button you can find various layers namely Gram Panchayat, Village and Roads etc.



On checking the box at the side of the screen by clicking on the same, the selected Layer(s) can be viewed on the map as shown below:

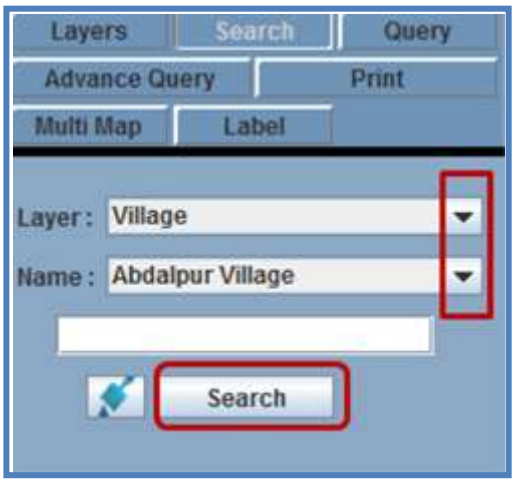
If you want to view all the layers at one time, check the 'Select All' box.



SEARCH::

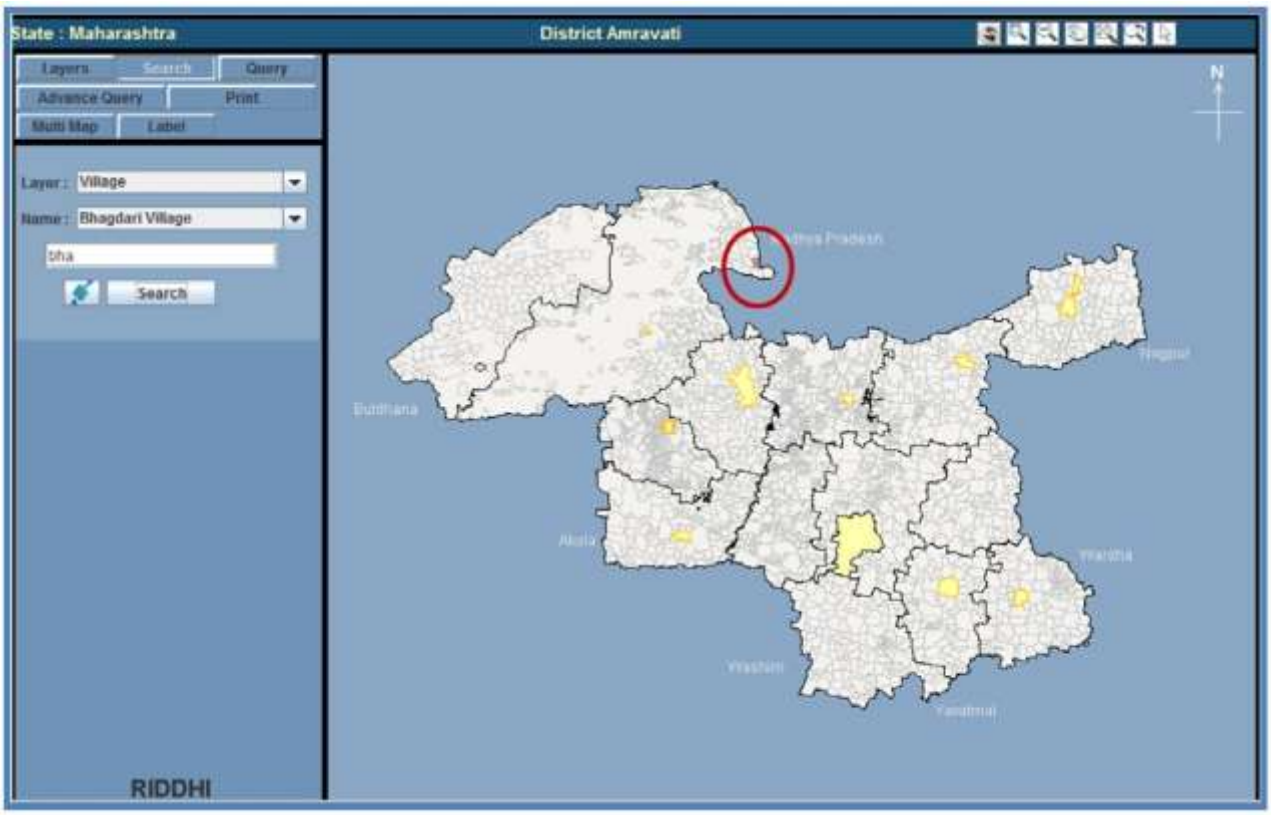
To search for any location on the map, click on "Search" button in the Menu bar. By using this menu you can easily identify the location of Gram Panchayats, Villages etc.

To search for any location on the map, select the name of the Layer and the location Name from the Combo boxes (move your mouse cursor to the scroll icon beside the box to find the names) and then click on 'SEARCH' button. Before searching the different layers, you have to turn on the respective layers in the map from the Layers section.



Also, on typing the first few characters of your desired location in the text box, the full name of the location will appear on the Combo box. By clicking on 'SEARCH' button you can easily see the location on the map.

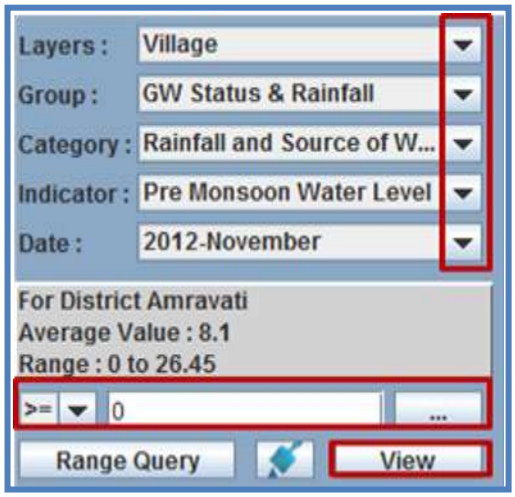
OR you can find the location name as you move the mouse Pointer over the map. After search option is clicked, the searched location will be highlighted in the map with different color as shown below:


State : Maharashtra
District Amravati
Layers
Search
Query
Advance Query
Print
Multi Map
Label
Layer : Village
Name : Bhagdari Village
bha
Search
RIDDHI
N
Madhya Pradesh
Buldhana
Akola
Yavatmal
Wardha
Nagpur

QUERY::

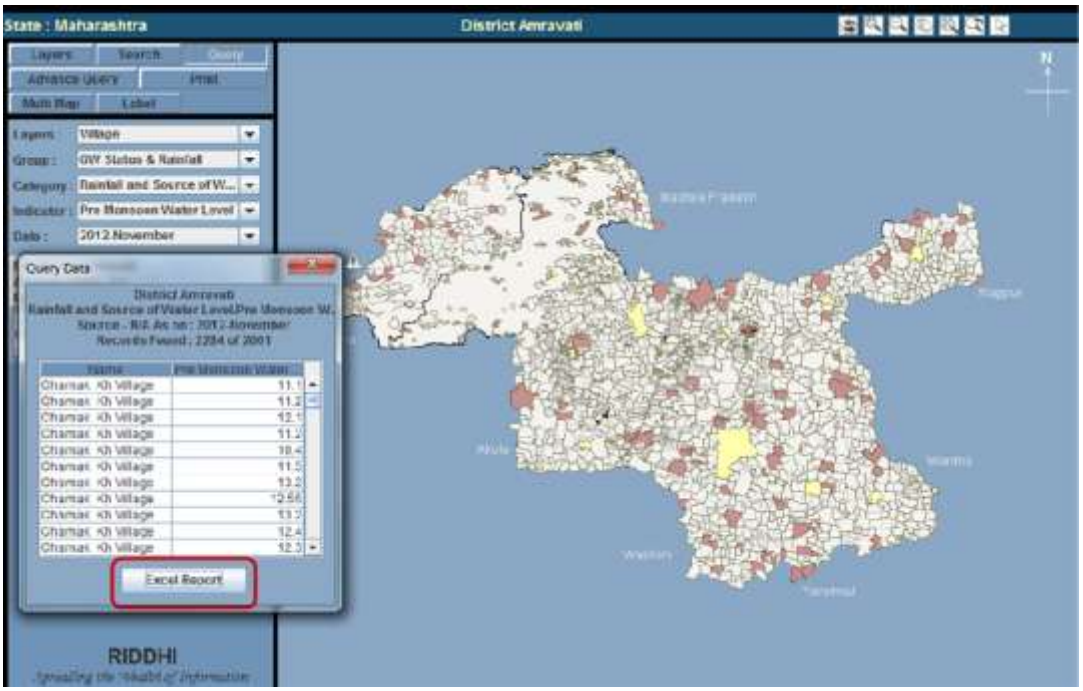
Using this feature, you can construct queries and view the results answering your query. Click on the 'Query' button from the menu bar and a Query panel appears.

To make queries, turn on the respective layers of the map, from layer menu (those layers which have the relevant data).



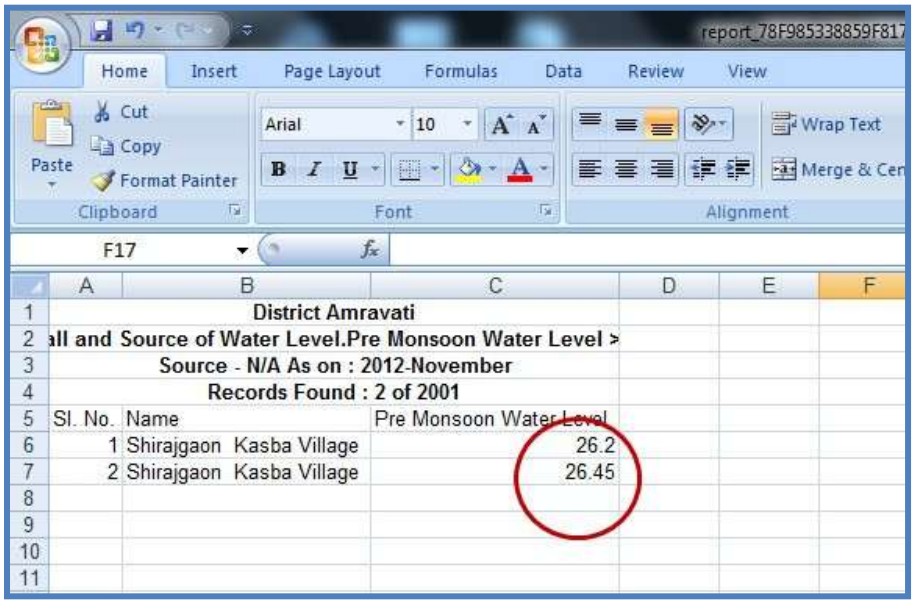
- Select the Layer on which you want to run the Query.
- Select the Group
- Select the Category under the Group
- Select the Indicator under the Category.
- Select the Month/Year
- Select operator e.g. =, >, < etc. from the operator combo box.
- Either chose value from the '...' button or enter the value in the text box
- Click on the 'View' button below the text box.

The result can now be viewed in the Map as shown below:



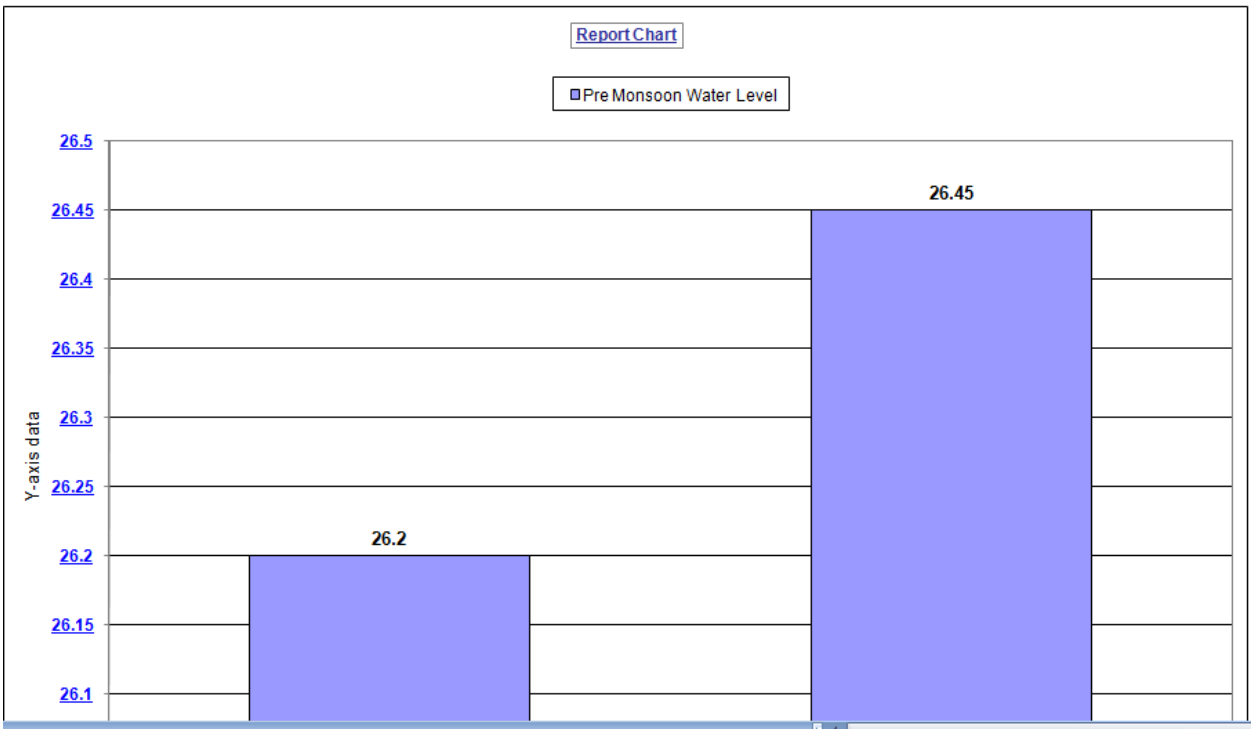
The above Data can be converted into a report (Excel format) by clicking on the "Excel Report" button as shown below:

EXCEL REPORT



	A	B	C	D	E	F
1		District Amravati				
2		ll and Source of Water Level.Pre Monsoon Water Level >				
3		Source - N/A As on : 2012-November				
4		Records Found : 2 of 2001				
5	Sl. No.	Name	Pre Monsoon Water Level			
6	1	Shirajgaon Kasba Village	26.2			
7	2	Shirajgaon Kasba Village	26.45			
8						
9						
10						
11						

CHART

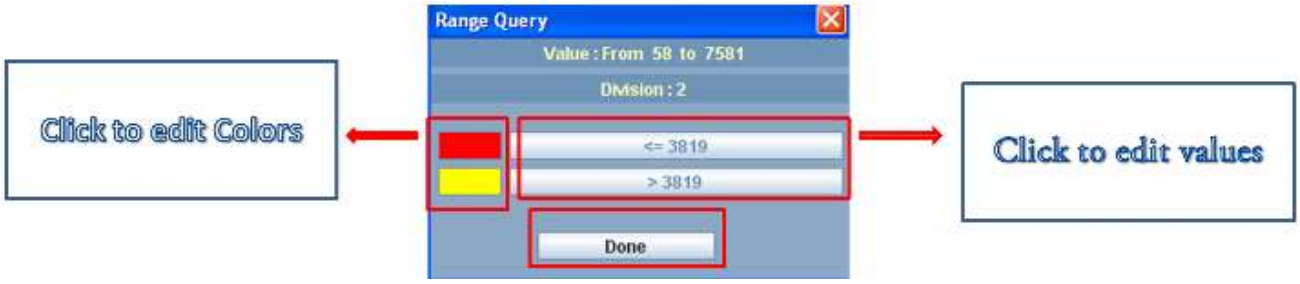


RANGE QUERY ::

- Select the Layer on which you want to run the Query
- Select the Group
- Select the Category under the Group
- Select the Indicator under the Category
- Select the Month/Year

You can prepare a thematic map using different colours for different ranges using Range Query. As you click on "Range Query" button, the following screen appears:

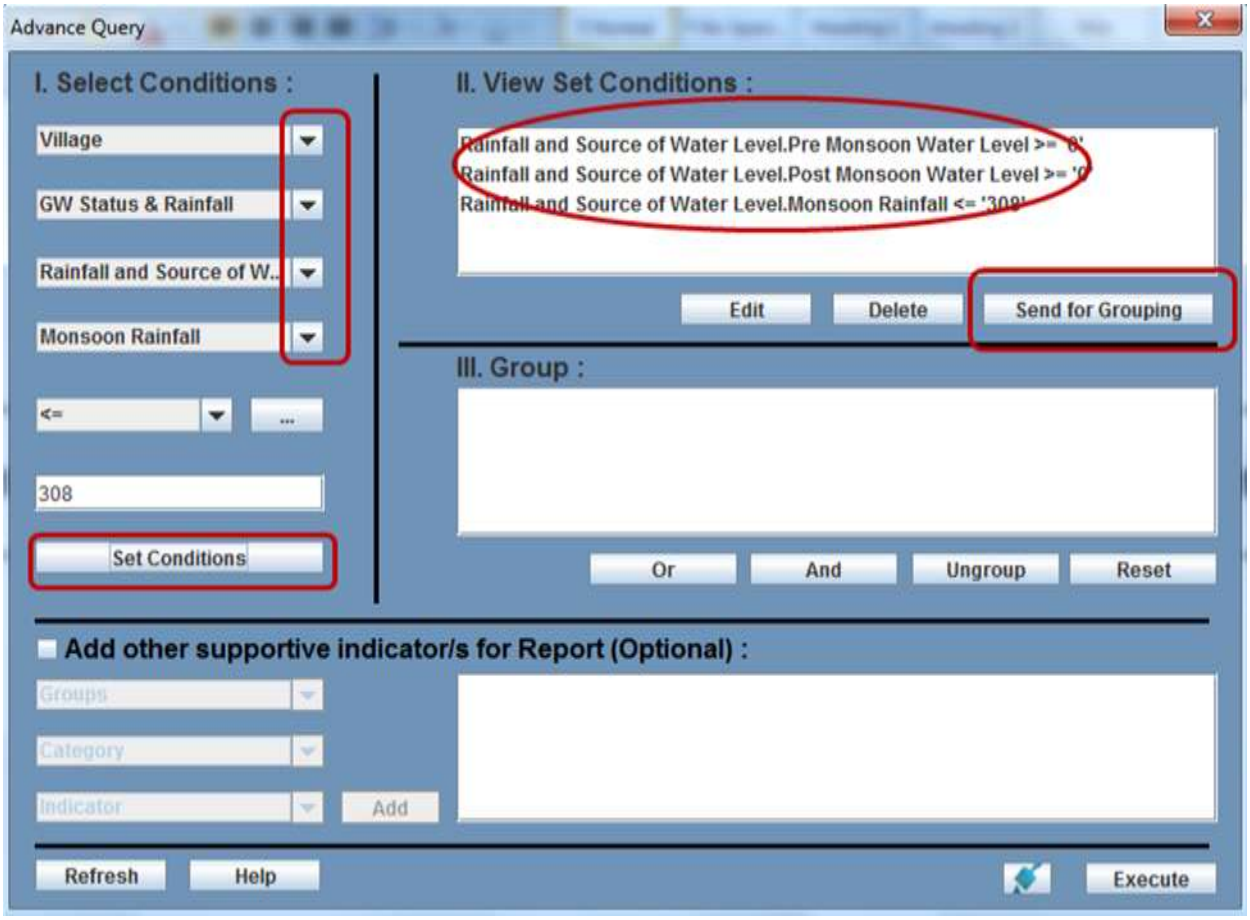
Select number of Ranges as desired. Click on "OK" button, the following screen appears:



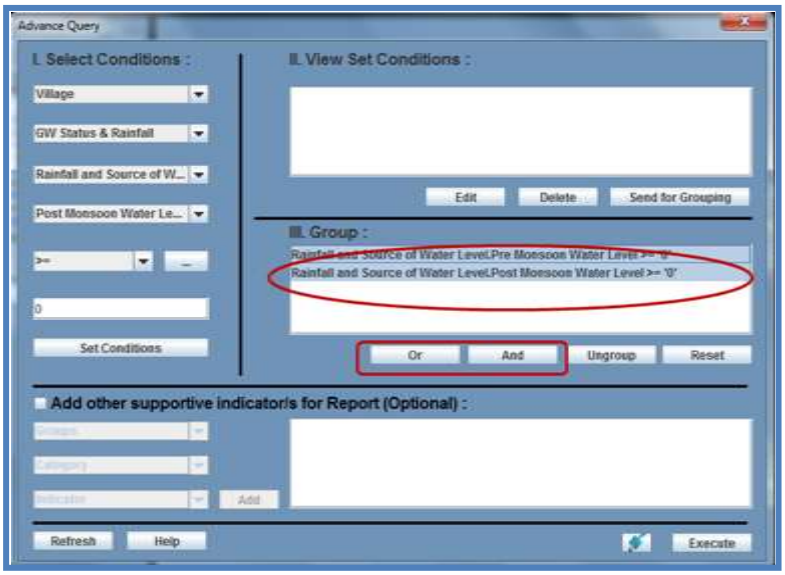
Click on "Done" button. The result will be displayed in the map as follows:

ADVANCE QUERY ::

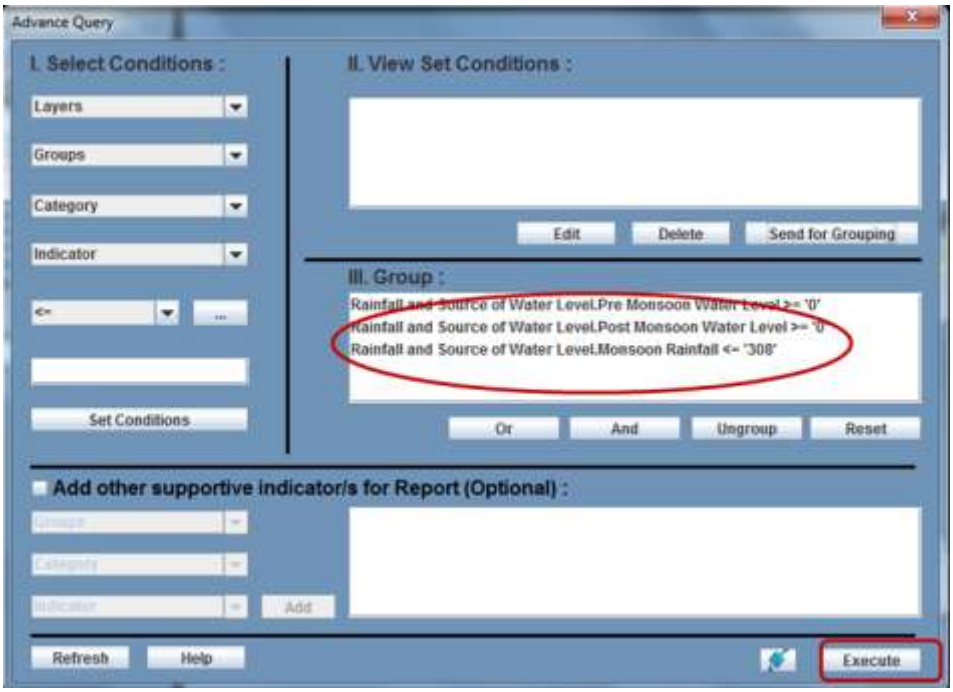
In the GIS, you can build query with more than one condition using 'AND' or 'OR' option. On clicking the "Advance Query" button, the following screen appears:



1). Select the Layers (e.g. Village Centre) from the Combo box.
2). Select the Group (e.g. GW Status & Rainfall)
3). Select the category (e.g. Rainfall and Source of Water)
4). Select the indicators (e.g. Monsoon Rainfall etc.)
5). Select 'operator', 'value' for the selected indicator.
6). Click on "Set Conditions" button to add fields in the "View Set Conditions" list box.
7). Now click on "Send for Grouping" button for grouping the selected conditions (with And /Or option) as shown below:

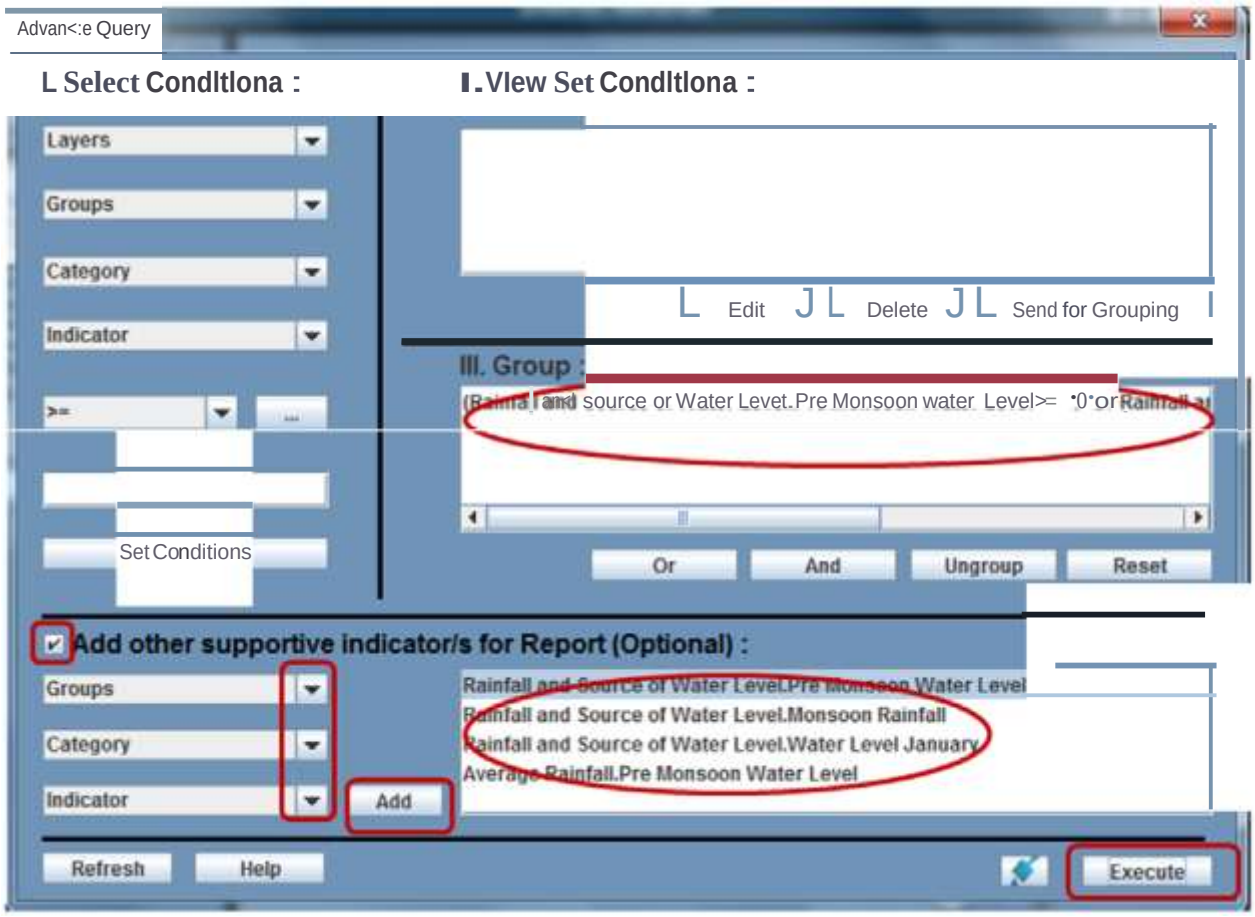


1) Select both the conditions and click on "AND" button to join the conditions with each other, the conditions will be grouped together as shown below:

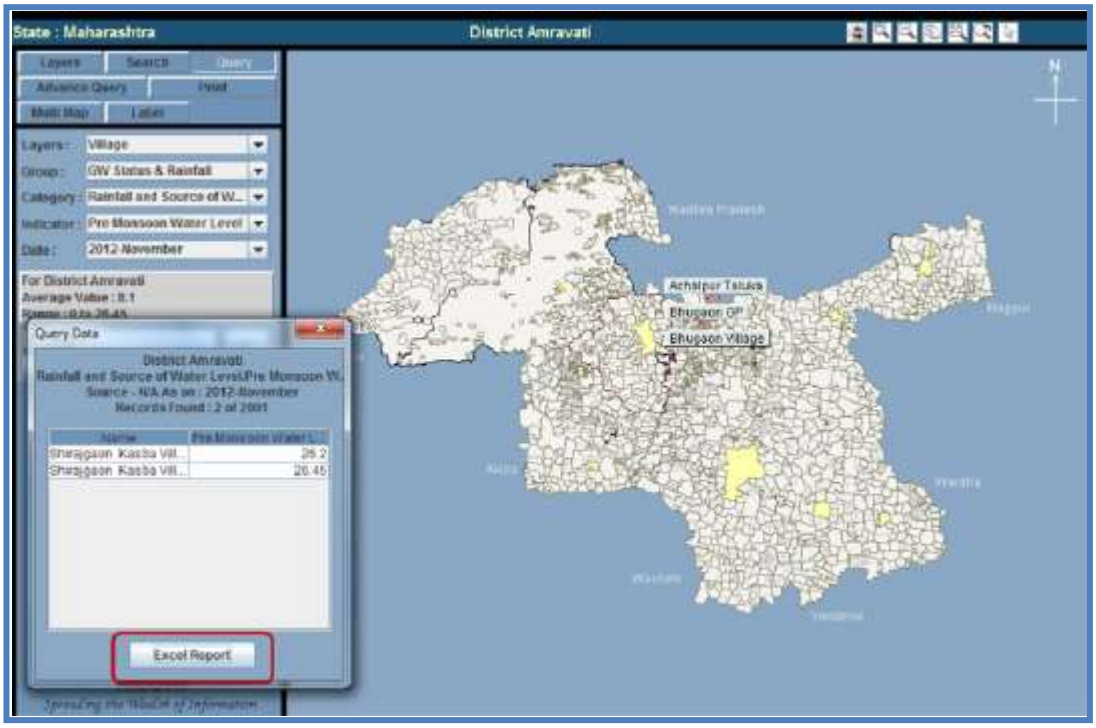


After the successful execution of a query, you can view the dataset of the indicators on which the query has been executed.

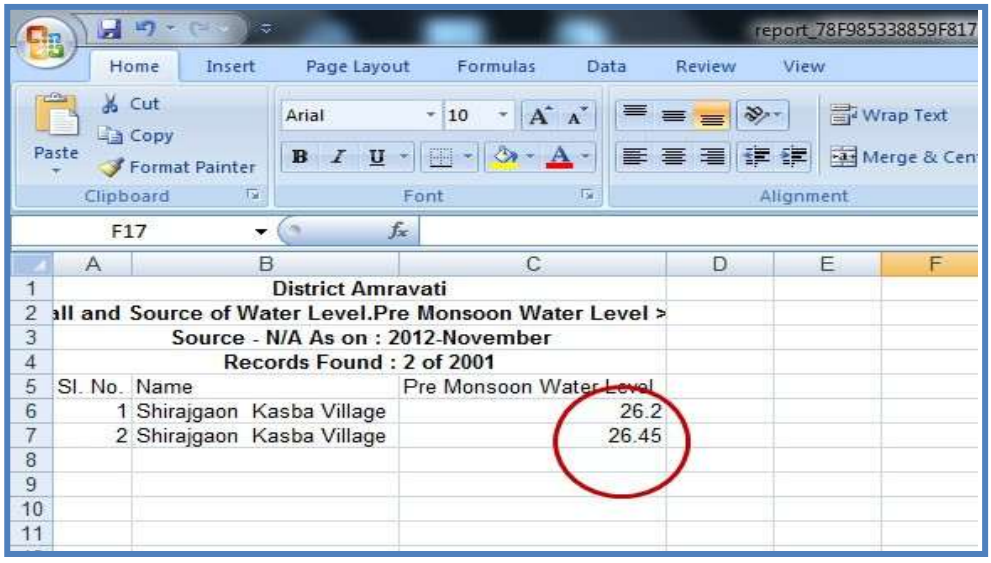
Now, you can also view the status of other indicators with the dataset of the executed query. To view this, click on the check box [(Add other supported indicators for Report (Optional)] and select the indicators from the list, then click on "ADD" button to add the selected indicators in query report. Then click on "Execute" button as shown below:



The following window appears:



You can now generate the query report (excel) with the added other indicator (i.e. "Pre Monsoon Water Level", "Monsoon Rainfall", "Water level January", "Pre monsoon Water level" in this case) by clicking on the "Excel Report" button" as shown below:



MULTI MAP::

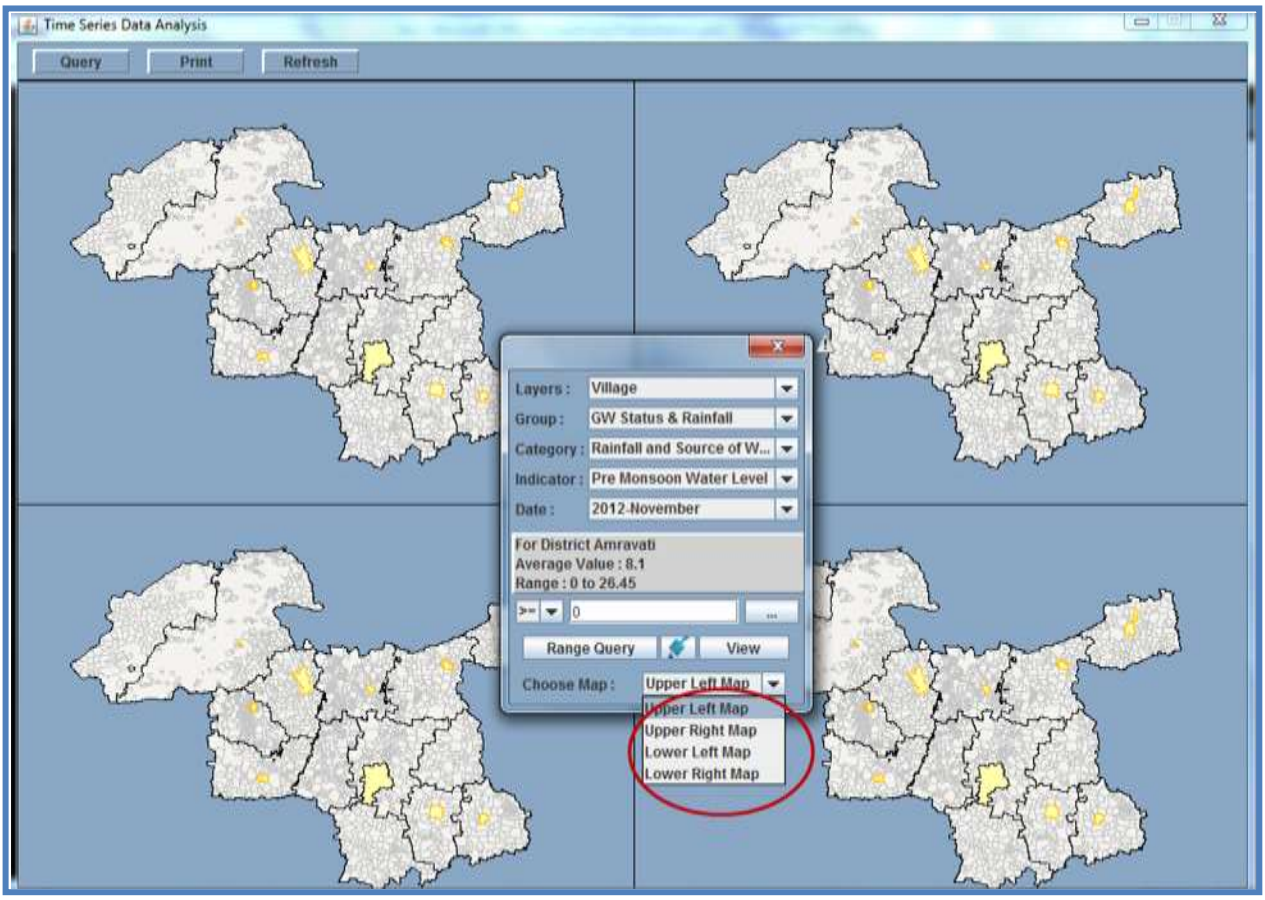
To see the Multi map i.e. multiple views of the Map, click on 'Multi Map' from the Menu bar. You can now perform queries on each of the multiple maps. Time series analysis can also be done in this section.

In this section, you will be able to make thematic maps on the following ways:

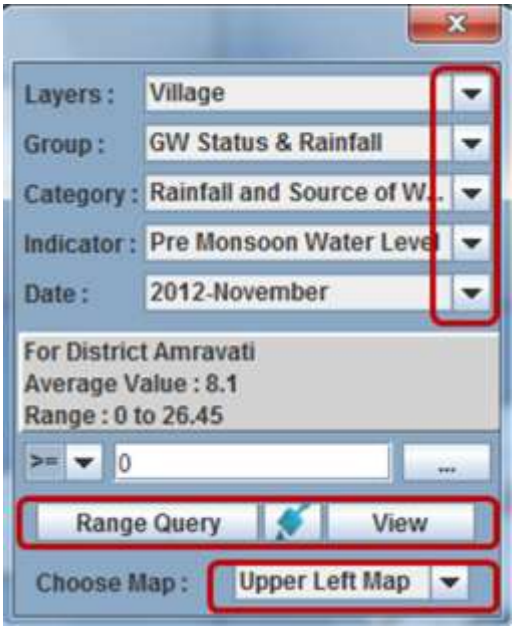
1). One indicator for different time span
2). Different indicators for same time frame for co-relation analysis and etc.

You can use 'Query' menu for making the thematic maps. Range query facility is also available in this module.

On clicking the "Multi Map" button, the following screen appears:

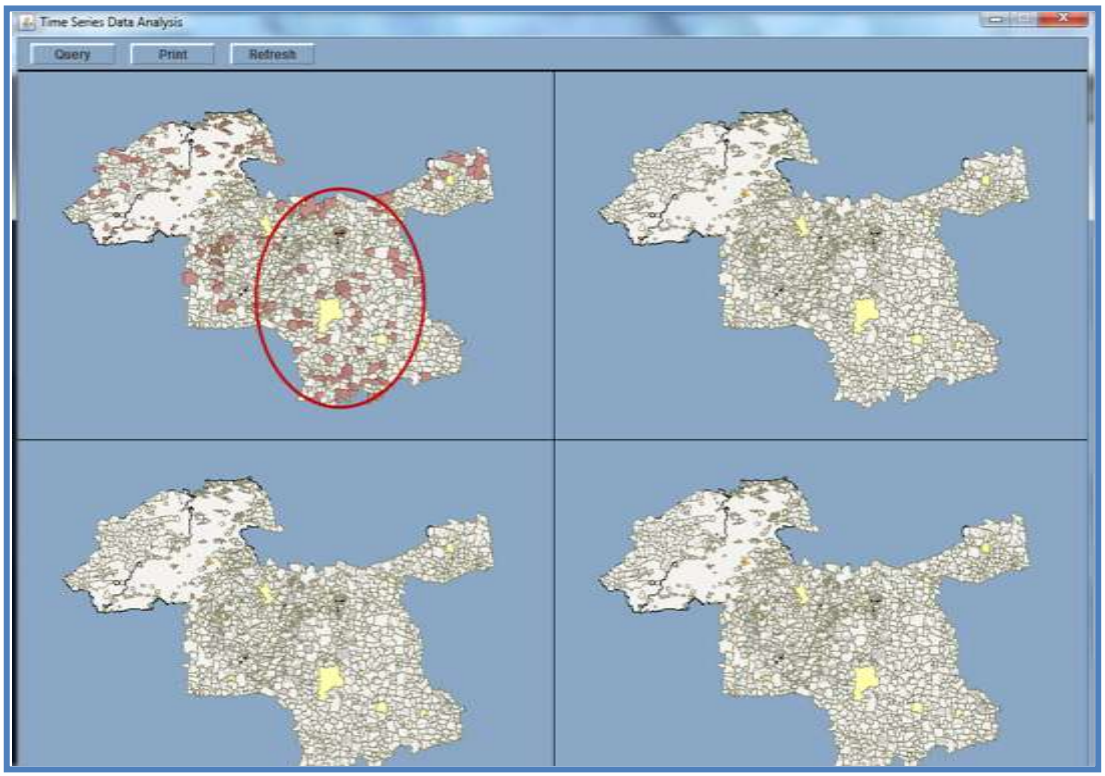


To make queries, turn on the respective layers of the map, from layer menu (those layers which have the relevant data).



1). Select the Layer on which you want to run the Query
2). Select the Group
3). Select the Category under the Group
4). Select the Indicator under the Category
5). Select Month/Year
6). Select operator e.g. =, >, < etc. from the operator combo
7). Either chose value from the '...' button or enter the value in the text box
8). Select the desired map (from the Choose Map drop down menu)
9). Click on the 'View' button below the text box

The result can now be viewed in the Map as shown below:



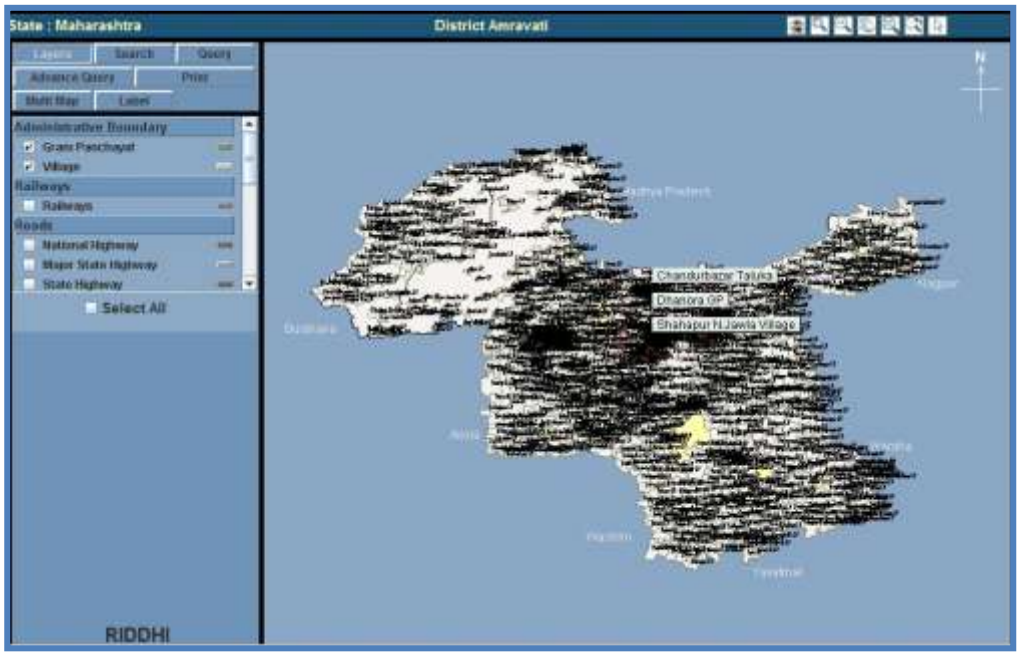
LABEL:

This module allows you to place Labels with various layers like Village, Gram Panchayat etc. in your map.

Click on Label, the following screen appears.

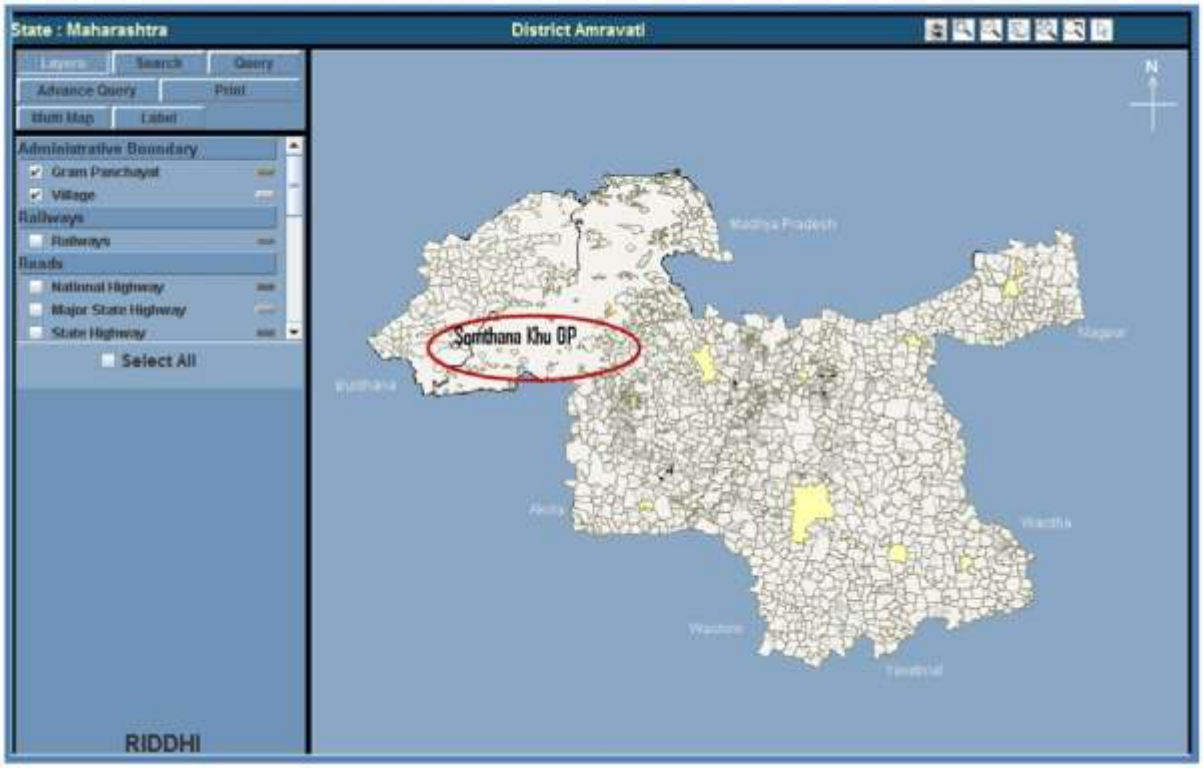
A

Using this facility, you can place labels on the areas of the map which have been highlighted through a query.

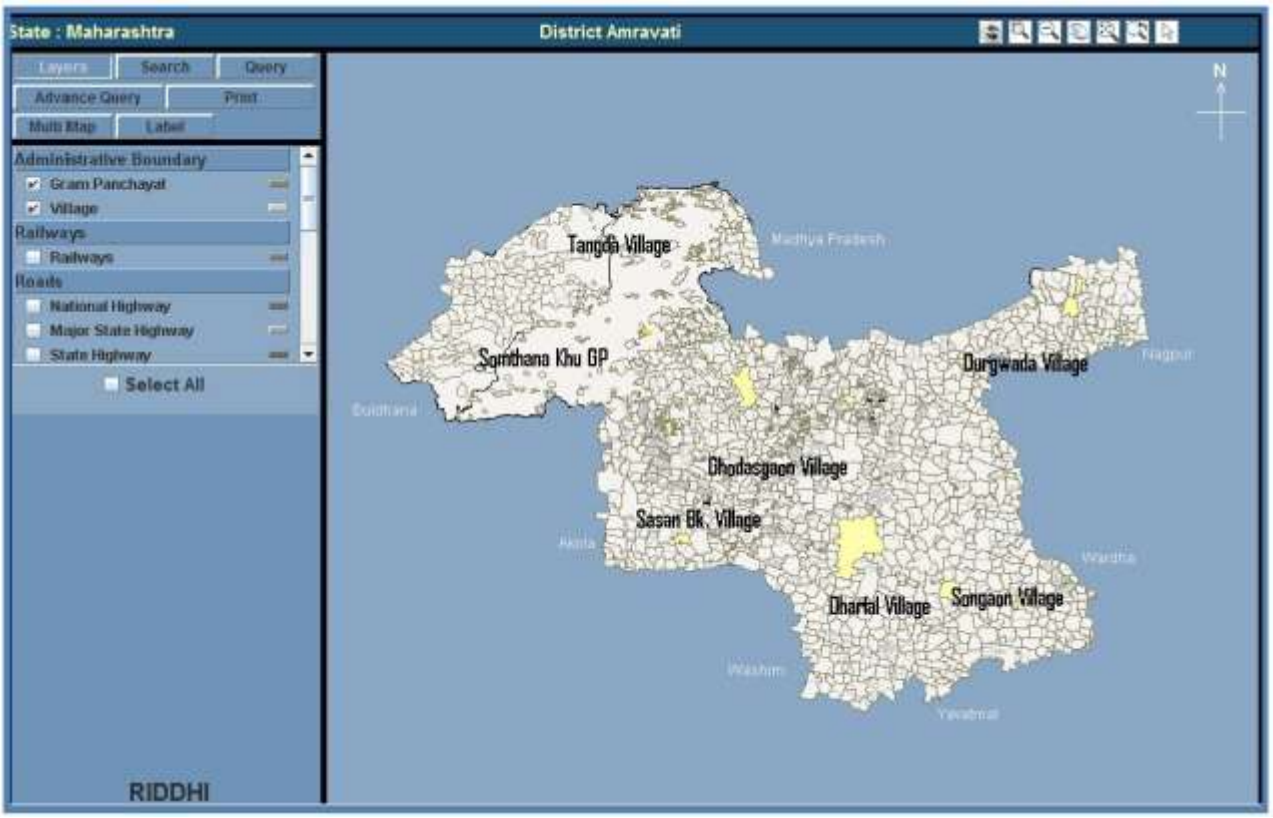


B

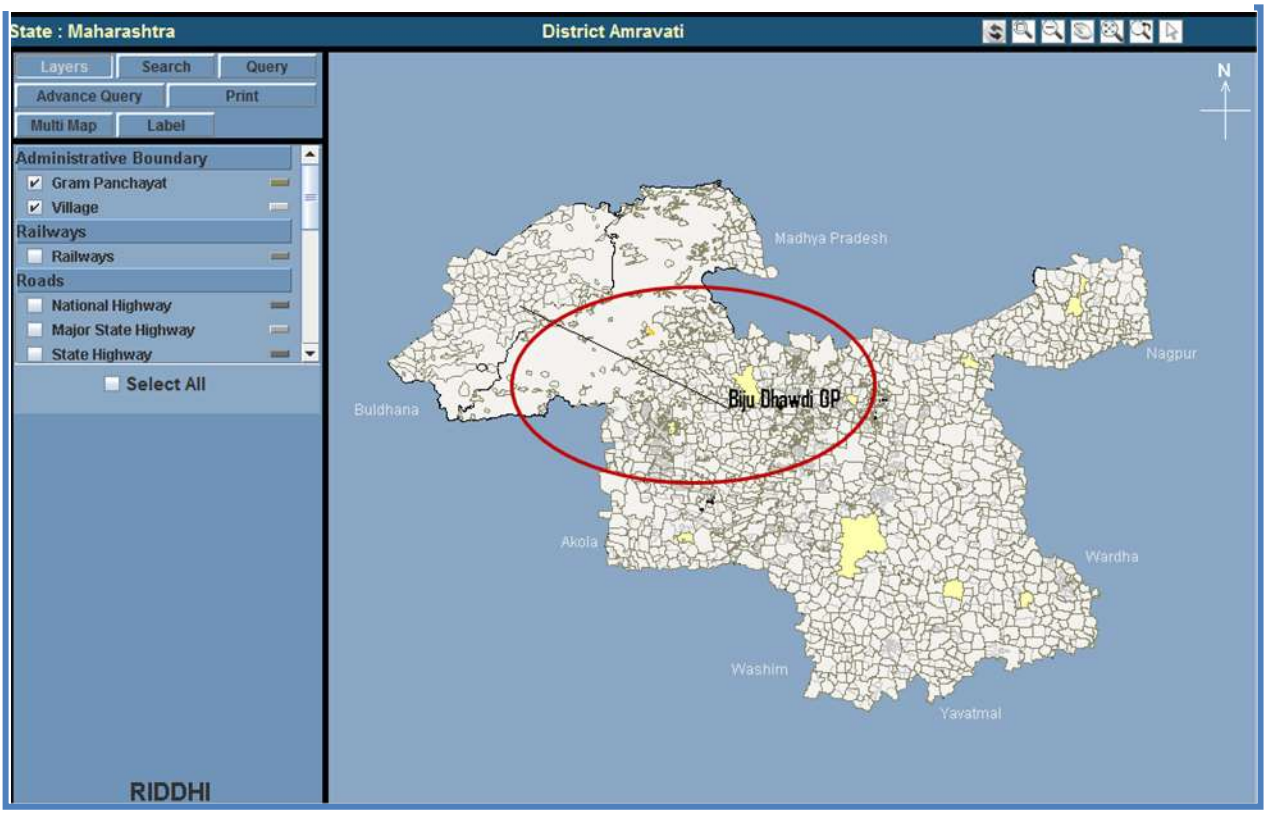
Using this facility, you can place labels on all the areas of your map for a selected layer.



Using this facility, you can place labels on the areas in your map as per your choice by clicking on the desired areas.**(Make a right click to stop the operation)**

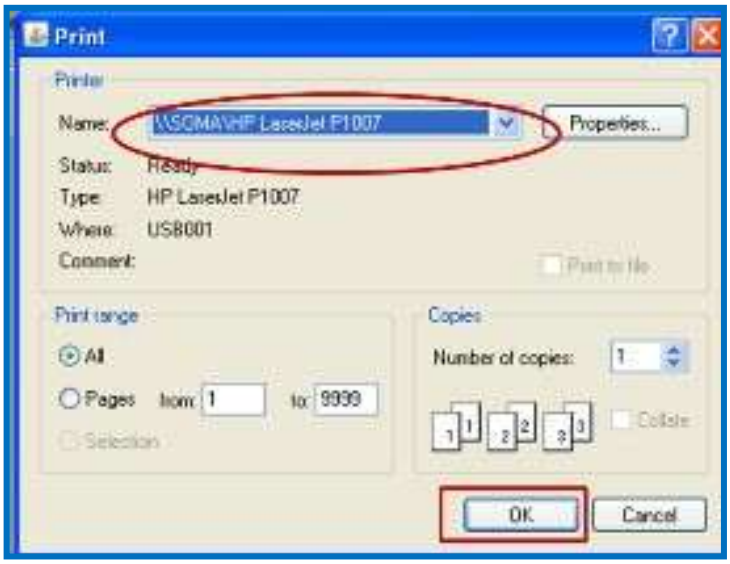


Using this facility, you can re-position labels in your map which have been placed earlier. (Make a right click to stop the operation)



PRINT::

Using this module, you can print your thematic map generated using Query, Advance Query or Range Query. On clicking the "Print" button, the following window appears:



Select the printer type and then click on "OK" button, the desired map will be printed out.

<u>Other Features:</u>

1) Location wise data
2) Zooming and panning facilities
3) Selection of Color Pallet

- Location wise data:

When you click on any location on the map, an information box appears in the left panel showing the value of indicators under the selected category from query menu as shown below:

There is an option to capture the data which is presently being viewed. Click on the **"Report"** button, the data would be ported in to an htmljexcel sheet as shown below:

Wadner Gangai Village

RainfaU and Source of Water Lenl (N/A)

Area Type	Location	Depth of OBW	Year	Monsoon Rainfall	Water Level January	Water Level March	Pre Monsoon Water Level	Post Monsoon Water Level
NON COMMAND	OPPOSITE TO SCHOOL NEAR H/O OF UTAM HUSA	14.8	1991	348	6.65	8.6	9.9	7.6

1) Zooming and panning facilities:

This facility allows you to resize and move the map so that every part of the map can be viewed, as desired. The Zooming and Panning buttons are present on the top right panel.

Zoom In:

- Click on the 'Zoom In' button
- Click and drag the portion of the map which you want to magnify

Zoom Out:

- Click on the 'Zoom Out' button
- With each Click the map is reduced in size

You can "Zoom In/Zoom Out" the map by scrolling your mouse wheel Up/Down

Pan:

- Click and drag the mouse cursor to the direction where you want to shift the map.

Zoom Extent:

- Click the button to bring the map to the default size and position

Zoom Previous:

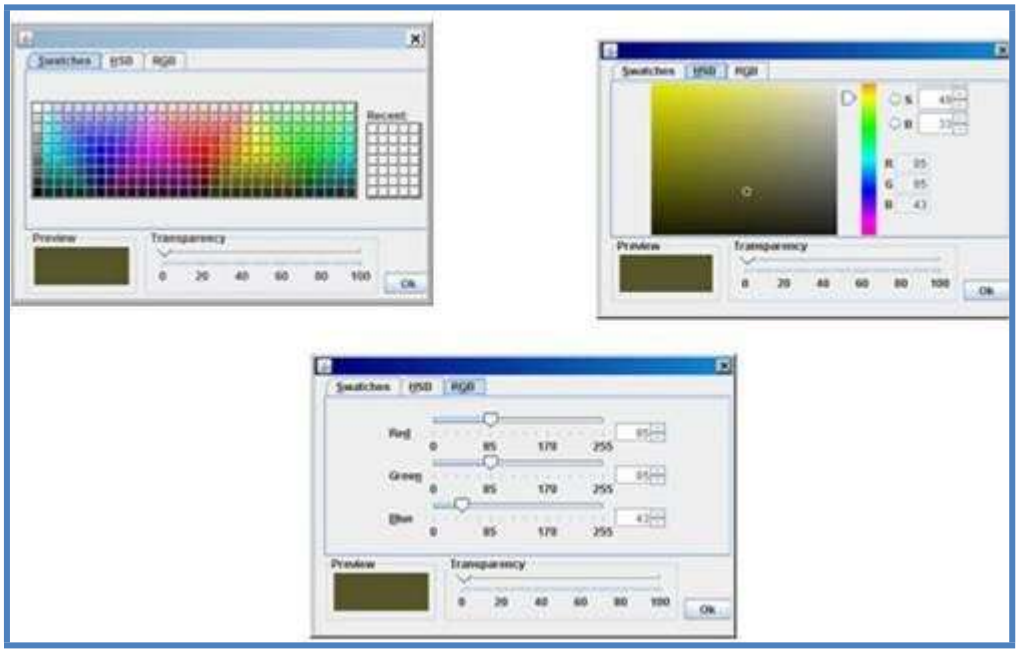
- Click the button to view the map in the previous size and position

Normal:

- Click on the button to bring the mouse cursor to the Normal Mode

1) Selection of Color Pallet:

In the GIS section, you are able to prepare the thematic maps using various colors, highlight the maps in the search mode in different colors etc. With this tool you will be able to highlight the map with color of your choice. For activation of the tool, click on button. The following windows appear:



You can select your preferred color from the color pallets as shown above. Your selected color will be used by the system to highlight the map on execution of any query.

[WASH METADATA::

Water Supply and Sanitation Department

Government of Maharashtra

English

Home | About | Overview | Gallery | Contact

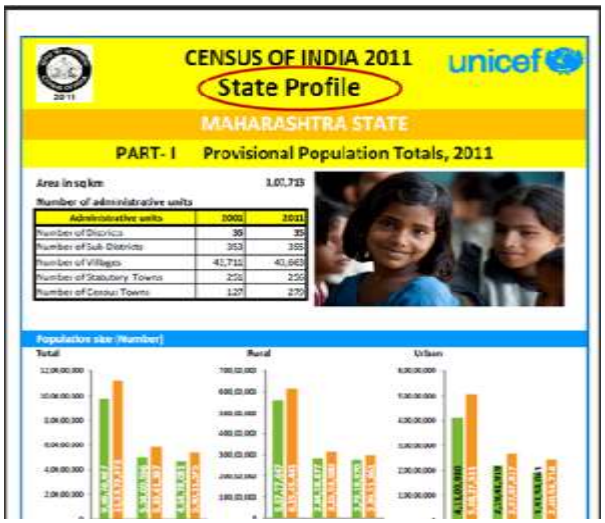
Category	Indicator Name	Indicator Descript
Sanitation	Percentage of HH toilet construction of GPs	Construction of HH (all) toilet as Percentage of target for Taluka
Sanitation	Percentage of APL+BPL HH toilet construction of GPs	Construction of HH (APL and BPL) toilet as Percentage of target for Taluka
Sanitation	Household toilets yet to be constructed of GPs	No of Household toilets yet to be constructed for Taluka - Gap between target and achievement
Sanitation	NGP a ODF GPs	Percentage of NGP plus ODF GPs within each Taluka compared to total toilet achievement
Sanitation	Percentage of NGP GPs	Percentage of NGP GPs within each Taluka compared to total number of GPs with n Taluka
Sanitation	Monthly rate of construction of HH toilets of GPs	Monthly rate of construction of HH toilets in Taluka
Sanitation	Likely no of years for reach ng 100Percentage HH toilet coverage for Taluka	Likely no of years for reaching 100Percentage HH toilet coverage for Taluka
Sanitation	Percentage of Schooltoilet construction of GPs	Construction of school toilet as Percentage of target for Taluka
Sanitation	Percentage of AWC toilet construction of GPs	Construct on of AWC toilet as Percentage of target for Taluka
Sanitation	Availabiltiy of Girls toilet in schools(DISE)	Percentage of schools having exclusive toilet for girls within Taluka compared to all the schools in the Taluka
Sanitation	No of girl student per toilet n schools (DISE)	Number of girlstudents per toilet (for girls) in schools within Taluka
Drink ng Water Supply	No of schools wi thout water sources w thin GP	Percentage of schools w thin Taluka without water sources compared to total number of schools in the Taluka
Drink ng Water Supply	Percentage of AWCs without water sources wi thin GP	Percentage of AWCs wi thin Talukawithout water sources compared to total number of AWCs in the Taluka
Cross-cutting issues	Percentage of GP with Green Card as per Sanitary Survey	Percentage of GPs within Taluka with santiary survey status compared to total number of GPs within Ta uka
Dr nking Water Source	GP wise status of contamination	Percentage of Contamination for Taluka compared to totalnumber of GPs wi thin the Taluka
Orinkino \UtPrttnnl\1	Villopc; fpfi with ®:mkPrc; (?MR-?01 \	Percentage of villages within Talk-fed wi th tankers (2008-2013) compared to
DnnKmg Water Supply	Vllages rea Wltn tanKers {2008-2013)	totalnumber of villages w thin Taluka
Water Tax	Current Water tax recovery status for GP	Current Water tax recovery status for allGPs within Taluka
Water Tax	Arrear Water tax recovery status for GP	Arrear Water tax recovery status for allGPs within Taluka
Cross-cutting issues	HH Toilet coverage status of GPs fully covered under PWS	Percentage of GPs with HH Toilet coverage better than district average out of aU 100Percentage PWS coverage GPs within Taluka
Cross-cuttinissues	PWS coverage in NGP/ODF GPs.	PWS status n NGP/ODF GPs
Drink ng Water Supply	Percentage of villages within GP covered with PWS	Percentage of villages with n GP covered with PWS
Dr nking Water Source	Number of water source in the GP	Availabilty of water source in the GP
Rainfall	Averae Monsoon Ra nfall in Taluka	Averae Monsoon Rainfall in Taluka
Rainfall	Average Post Monsoon Rainfall in Tauka	Average Post Monsoon Rainfall in Taluka
Rainfall	Average Pre-Monsoon Rainfall in Taluka	Average Pre-Monsoon Rainfall n Taluka
Ra nfall	Average Rainfall Water Level (January) in Taluka	Average Rainfall Water Level (January) in Ta uka
Ra nfall	Average Rainfall Water Level(March) in Taluka	Average Rainfall Water Level(March) in Taluka
Ra nfall	Average Rainfall Depth OBW in Taluka	Average Rainfall Depth OBW in Taluka
Sanitation	Percentage of HH toilet construction	Construction of HH (all) toilet as Percentage of target for Taluka
Sanitation	Percentage of APL-BPL HH toilet construction	Construct on of HH (APL and BPL) toilet as Percentage of target for Taluka
Sanitation	Household toilets yet to be constructed	No of Household toilets yet to be constructed for Taluka - Gap between target and achievement
Sanitation	NGP a ODF GPs	Percentage of NGP plus ODF GPs within each Taluka compared to totaltoilet achievement
Sanitation	Percentage of NGP GPs	Percentage of NGP GPs within each Taluka compared to total number of GPs with n Taluka
Sanitation	Monthlv rate of construction of HH toilets	Monthlv rate of construction of HH toilets in Taluka
Sanitation	Likely no of years for reachng 100Percentage HH toilet coverage for Taluka	Likely no of years for reaching 100Percentage HH toilet coverage for Taluka
Sanitation	Percentage of Schooltoilet construction	Construction of school toilet as Percentage of target for Taluka
Sanitation	Percentage of AWC toilet construction	Construct on of AWC toilet as Percentage of target for Taluka
Sanitation	Availability of Girls toilet in schools(DISE)	Percentage of schools having exclusive toilet for girls within Taluka compared to all the schools in the Taluka
Sanitation	No of girl student per toilet n schools (DISE	Number of girlstudents per toilet (for girls) in schools within Taluka
Drink ng Water Supply	Percentage of schools without water sources w thin GP	Percentage of schools w thin Taluka without water sources compared to total number of schools in the Taluka
Drinking Water Supply	Percentage of AWCs without water sources wi thin GP	Percentage of AWCs wi thin Taluka wi thout water sources compared to total number of AWCs in the Taluka
Cross-cutting issues	Percentage of GP with Green Card as per Sanitary Survev	Percentage of GPs wi thin Taluka with sanitary survey status compared to total number of GPs within Ta uka

The Wash Meta Data looks like the above page. In Meta Data you can find the “Category name”, the “Indicator Name” and finally the “Indicator Description” in details. These categories have the following Indicators and the description of those Indicators are shown in brief.

CENSUS’ 11, DATA ANALYSIS ::

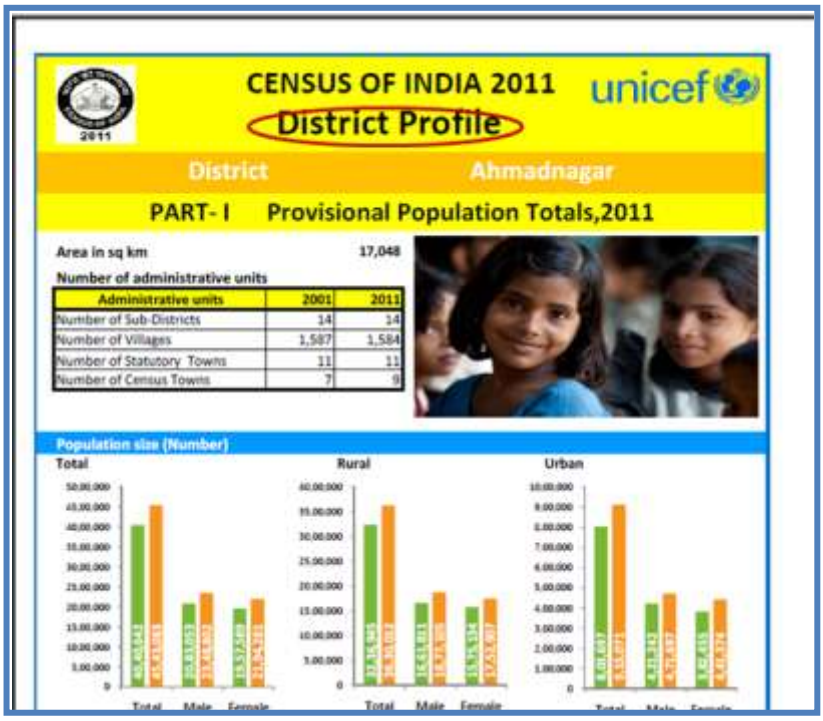
Water Supply and Sanitation Department
Government of Maharashtra
मराठी | English
LATEST NEWS
The WASH GIS in Maharashtra is a unique initiative for viewing various water & sanitation related interventions and outcome on the web. Reaching safe water and hygienic sanitary facilities to all households are important goals of the country that are to be achieved as soon as possible. Sustainability of water sources is another area of growing concern because of various
IMPORTANT LINKS
Ministry of Drinking Water & Sanitation
Water Supply and Sanitation Department
Census of India
UNICEF India
Ground Water surveys and Development Agency
Water and Sanitation Support Organisation
PARTNERS
GSDA
Home | About | Overview | Gallery | Contact
WASH ATLAS » level selection
State Profile
District Profile
Block Profile

STATE PROFILE ::



DISTRICT PROFILE::

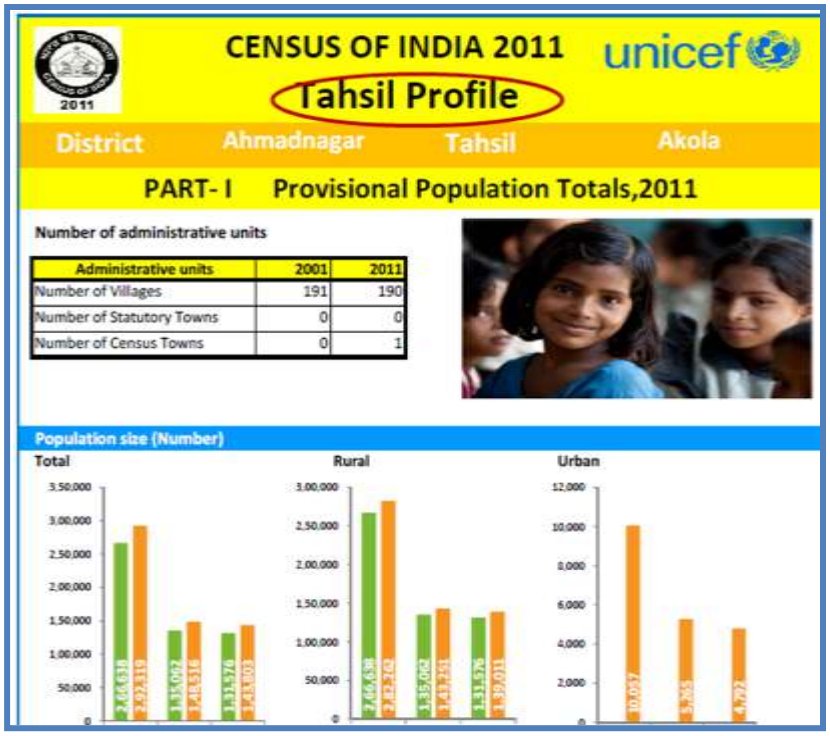
On clicking on the District Profile you need to select the name of the District from the combo box. Click on the "GO" button to generate the District Level Report.



BLOCK PROFILE::

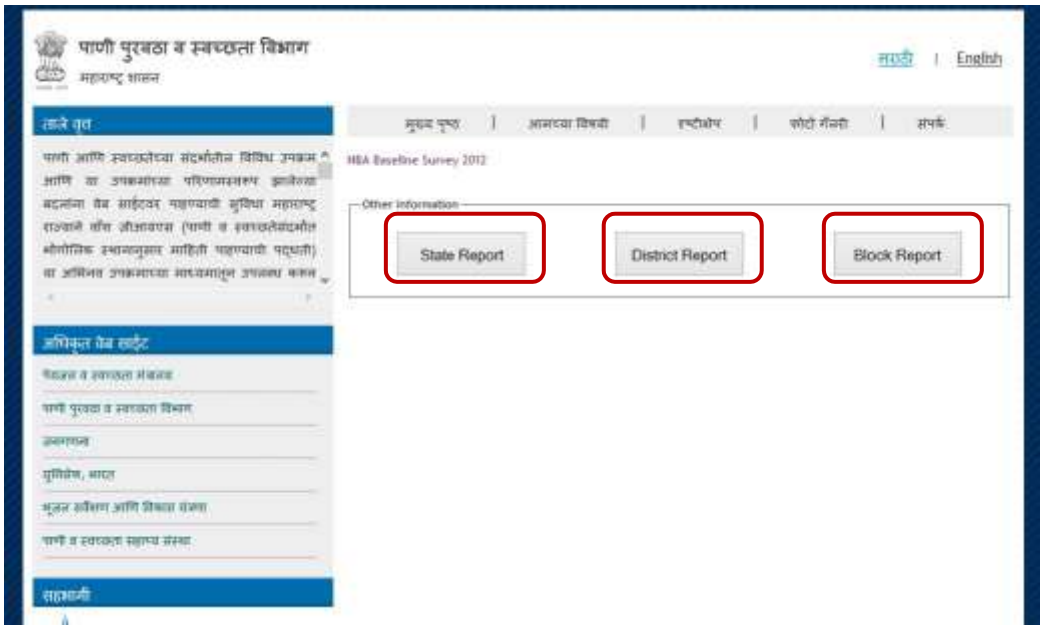
Similarly on clicking the Block Profile Button, you need to select District name first and then the name of the Block within that District from the combo box provided.

Finally click on the "GO" button to generate the Block level report.

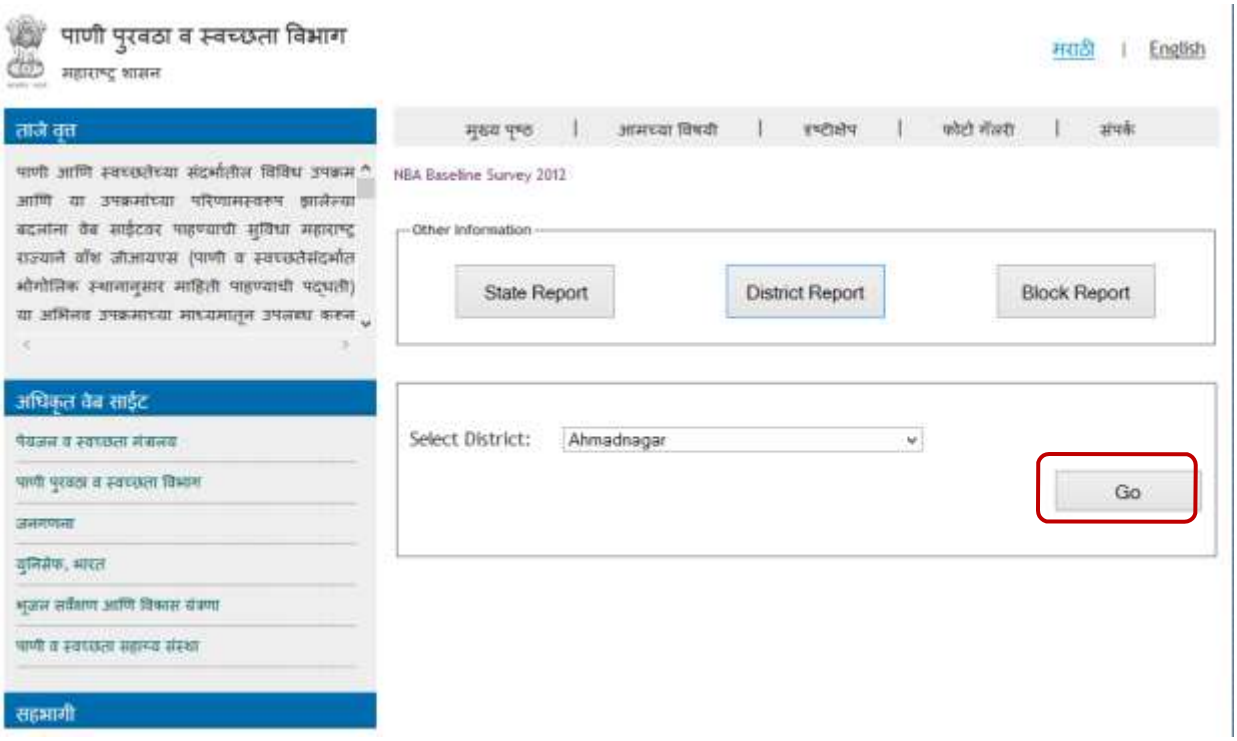


NBA Baseline Survey Data 2012 ::

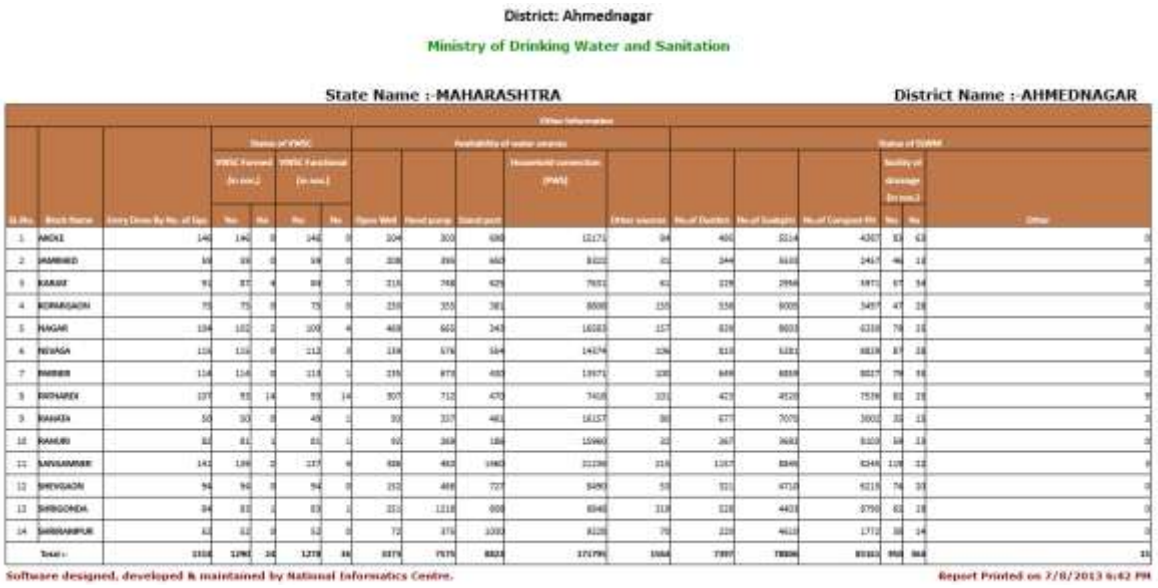
Selecting any of the four categories will take us to the following page:



If “District Report” is clicked, below screen appears:



After selecting the preferable district from the drop-down menu, opens the report for the chosen district.



District: Ahmednagar

Ministry of Drinking Water and Sanitation

State Name : MAHARASHTRA District Name : AHMEDNAGAR

Software designed, developed & maintained by National Informatics Centre. Report Printed on 7/8/2013 6:42 PM

Similar exercise can be done for analyzing report of all Districts, Blocks and Gram Panchayats also.

CONTACT US::

Please feel free to contact us for further assistance.

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